10/625,604

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	4	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	5	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	6	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	7	MAR 02	GBFULL: New full-text patent database on STN
NEWS	8	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	9	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	10	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	11	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	12	MAR 22	PATDPASPC - New patent database available
NEWS	13	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags

NEWS EXPRESS	JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:00:09 ON 31 MAR 2005

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:00:21 ON 31 MAR 2005

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 30 MAR 2005 HIGHEST RN 847643-36-1
DICTIONARY FILE UPDATES: 30 MAR 2005 HIGHEST RN 847643-36-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

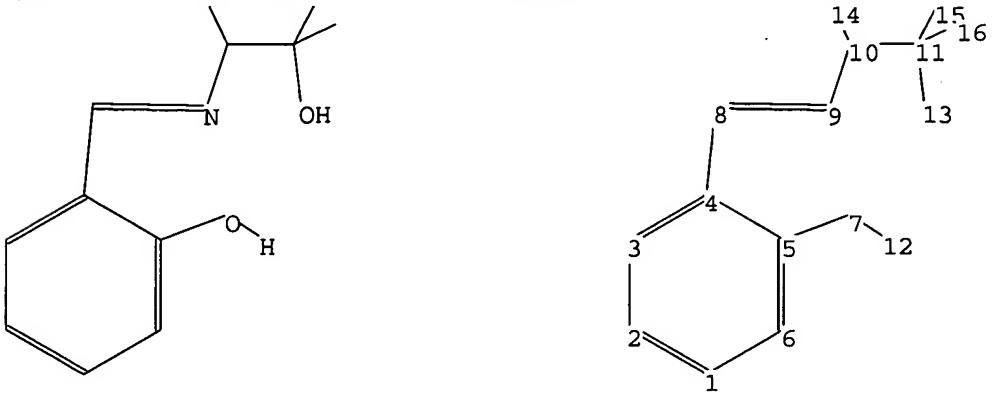
Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10625604.str



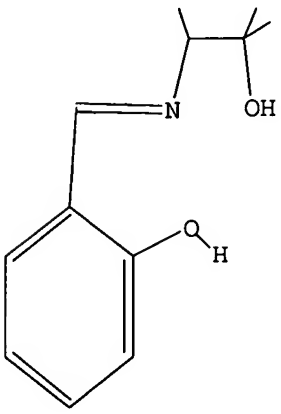
chain nodes :
7 8 9 10 11 12 13
ring nodes :
1 2 3 4 5 6
ring/chain nodes :
14 15 16
chain bonds :
4-8 5-7 7-12 8-9 9-10 10-11 10-14 11-13 11-15 11-16
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
5-7 8-9 9-10 11-13
exact bonds :

4-8 7-12 10-11 10-14 11-15 11-16
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

L1   STRUCTURE UPLOADED

=> d query
L1   STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 17:00:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   136 TO ITERATE

100.0% PROCESSED   136 ITERATIONS   5 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 2021 TO   3419
PROJECTED ANSWERS: 5 TO   234

L2   5 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 17:00:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   2444 TO ITERATE

100.0% PROCESSED   2444 ITERATIONS   155 ANSWERS
SEARCH TIME: 00.00.01

L3   155 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'CAPLUS' ENTERED AT 17:00:44 ON 31 MAR 2005
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

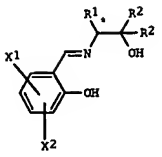
FILE COVERS 1907 - 31 Mar 2005 VOL 142 ISS 14
FILE LAST UPDATED: 30 Mar 2005 (20050330/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 42 L3

=> d l4 1-42 abs ibib hitstr

L4 ANSWER 1 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



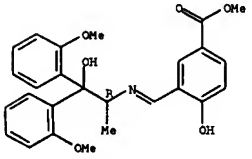
I

AB The invention refers to an optically active Cu catalyst composition comprising
(a) an optically active salicylideneamino alc. I [R1,2 = (un)substituted lower alkyl, aralkyl, or aryl; X1,2 = H, lower alkoxy, nitro, lower alkoxycarbonyl, cyano, or halo, wherein both X1 and X2 may not be H simultaneously; * represents an asym. center], (b) a mono- or di-valent Cu compound, and (c-1) a Li compound or (c-2) an Al, Ti B, Zr, or Hf compound with
Lewis acidity. The optically activated catalyst composition may be used to produce optically active cyclopropanecarboxylic acids.

ACCESSION NUMBER: 2004:857482 CAPLUS
DOCUMENT NUMBER: 141:313671
TITLE: Optically active copper catalyst composition for production of optically active cyclopropane carboxylic acid
INVENTOR(S): Itagaki, Makoto
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

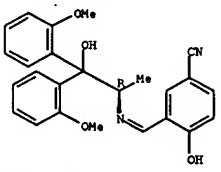
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087317	A1	20041014	WO 2004-JP4185	20040325
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004315503	A2	20041111	JP 2004-67150	20040310
PRIORITY APPLN. INFO.:			JP 2003-93750 A	20030331

L4 ANSWER 1 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 768386-22-7 CAPLUS
CN Benzonitrile, 4-hydroxy-3-[[[(1R)-2-hydroxy-2,2-bis(2-methoxyphenyl)-1-methylethyl]imino]methyl]- (9CI) (CA INDEX NAME)

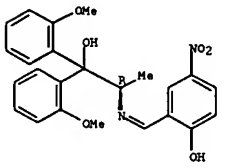
Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

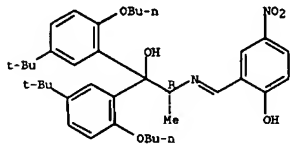
L4 ANSWER 1 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
OTHER SOURCE(S): MARPAT 141:313671
IT 352015-01-1 352018-08-7 768386-21-6
768386-22-7
RL: CAT (Catalyst use); DEV (Device component use); USES (Uses)
(optically active copper catalyst composition for production of optically active
cyclopropane carboxylic acid)
RN 352015-01-1 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 352018-08-7 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

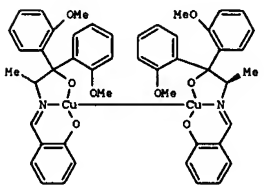
Absolute stereochemistry.
Double bond geometry unknown.



RN 768386-21-6 CAPLUS
CN Benzoic acid, 4-hydroxy-3-[[[(1R)-2-hydroxy-2,2-bis(2-methoxyphenyl)-1-methylethyl]imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



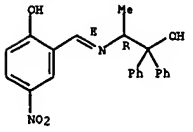
I

AB A remarkable increase in catalytic activity is found for the asym. cyclopropanation of 2,5-dimethyl-2,4-hexadiene with diazoacetate by use of the chiral copper Schiff-base complexes, which are derived from substituted salicylaldehydes, chiral amino alcs., and copper acetate monohydrate. Furthermore, a combination of a chiral copper Schiff-base with a Lewis acid showed an increase in yield (up to 90%) and in enantioselectivity (up to 90% ee) for the asym. cyclopropanation of the diene with t-Bu diazoacetate at 20 °C. Addition of copper acetate monohydrate to α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)benzenemethanol (chiral amino alc. ligand) gave a copper catalyst (I) in situ. The cyclopropanation of 2,5-dimethyl-2,4-hexadiene with Et diazoacetate gave (+)-trans-chrysanthemic acid Et ester as a major product.

ACCESSION NUMBER: 2004:642042 CAPLUS
DOCUMENT NUMBER: 141:332326
TITLE: Highly efficient chiral copper Schiff-base catalyst for asymmetric cyclopropanation of 2,5-dimethyl-2,4-hexadiene
AUTHOR(S): Itagaki, Makoto; Hagiya, Koji; Kamitamari, Masashi; Masumoto, Katsuhisa; Suenobu, Katsuhiro; Yamamoto, Yohsuke
CORPORATE SOURCE: Organic Synthesis Research Laboratory, Sumitomo Chemical Co., Ltd., Konohana-ku, Osaka, 554-8558, Japan
SOURCE: Tetrahedron (2004), 60(36), 7835-7843
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 769182-51-6P 769182-53-8P 769182-55-0P
769182-57-2P 769182-59-4P 769182-61-8P
769182-63-0P 769182-65-2P 769182-67-4P
769182-69-6P 769182-71-0P 769182-73-2P
769182-75-4P 770713-30-9P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation of chiral salicylidene copper catalysts, their application to

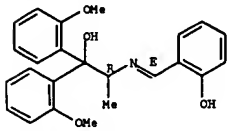
L4 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
stereoselective cyclopropanation, and study of substituent effect of amino alc. and salicylaldehyde framework on catalyst activity)
RN 769182-51-6 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[(E)-[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



RN 769182-53-8 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[(E)-[(2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

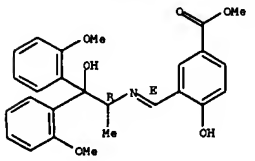


RN 769182-55-0 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[(E)-[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

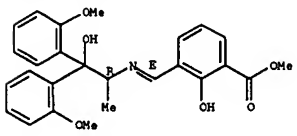
L4 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
methylethyl]imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



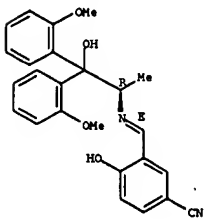
RN 769182-63-0 CAPLUS
CN Benzoic acid, 2-hydroxy-3-[(E)-[[(1R)-2-hydroxy-2,2-bis(2-methoxyphenyl)-1-methylethyl]imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

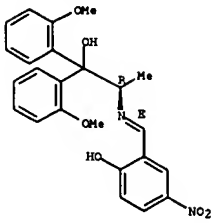


RN 769182-65-2 CAPLUS
CN Benzonitrile, 4-hydroxy-3-[(E)-[[(1R)-2-hydroxy-2,2-bis(2-methoxyphenyl)-1-methylethyl]imino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

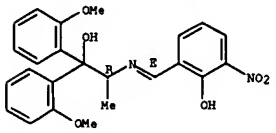


L4 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



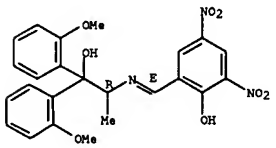
RN 769182-57-2 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[(E)-[(2-hydroxy-3-nitrophenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



RN 769182-59-4 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[(E)-[(2-hydroxy-3,5-dinitrophenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

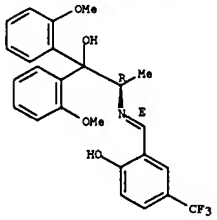


RN 769182-61-8 CAPLUS
CN Benzoic acid, 4-hydroxy-3-[(E)-[[(1R)-2-hydroxy-2,2-bis(2-methoxyphenyl)-1-

L4 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

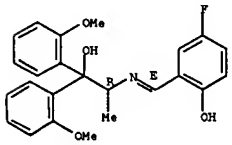
RN 769182-67-4 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[(E)-[[2-hydroxy-5-(trifluoromethyl)phenyl]methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



RN 769182-69-6 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[(E)-[(5-fluoro-2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)-(9CI) (CA INDEX NAME)

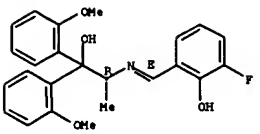
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



RN 769182-71-0 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[(E)-[(3-fluoro-2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)-(9CI) (CA INDEX NAME)

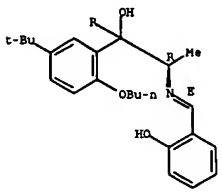
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

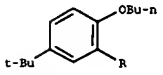
L4 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 769182-73-2 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1R)-1-[(E)-[(2-hydroxyphenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

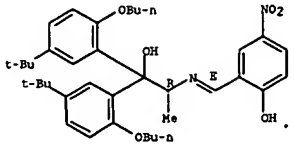




RN 769182-75-4 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1R)-1-[(E)-[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

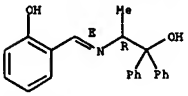
Absolute stereochemistry.
Double bond geometry as shown.

L4 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 770713-30-9 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[(E)-[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

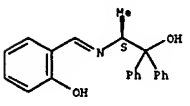
L4 ANSWER 3 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

AB After synthesis of a series of chiral Schiff bases from easily available amino-alc., pinacol coupling reaction of benzaldehyde catalyzed by a series of Schiff bases-Ti complexes afforded pinacol with high yield and different diastereoselectivity. The relationship between the steric structure of these Schiff bases and the diastereoselectivity of pinacol was systemically studied and calculated by QSAR calcn. method.

ACCESSION NUMBER: 2004:600892 CAPLUS
DOCUMENT NUMBER: 141:313734
TITLE: Experimental and theoretical investigation of the relationship between the steric structure of Schiff bases and the diastereoselectivity of pinacol produced from benzaldehyde
AUTHOR(S): Tian, Qingshan; Jiang, Chen; Li, Yougui; Jiang, Changsheng; You, Tianpa
CORPORATE SOURCE: Department of Chemistry, University of Science and Technology of China, Anhui, Hefei, 230026, Peop. Rep. China
SOURCE: Journal of Molecular Catalysis A: Chemical (2004), 219(2), 315-317
CODEN: JMCCF2; ISSN: 1381-1169
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **78679-29-5 147600-16-6 154802-38-7**
RL: CAT (Catalyst use); CPS (Chemical process); PEP (Physical, engineering or chemical process); RGT (Reagent); PROC (Process); RACT (Reactant or reagent); USES (Uses)
(exptl. and theor. investigation of relationship between steric structure of Schiff bases and diastereoselectivity of pinacol produced from benzaldehyde)

RN 78679-29-5 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

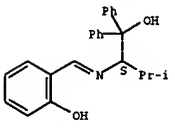
Absolute stereochemistry.
Double bond geometry unknown.



RN 147600-16-6 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[(2-hydroxyphenyl)methylene]amino]-2-methylpropyl]-α-phenyl- (9CI) (CA INDEX NAME)

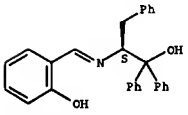
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 3 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 154802-38-7 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-diphenyl-, (βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

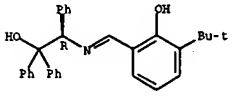
AB Both (R)-2-Amino-1,2,2-triphenylethanol (1) and (S)-2-Amino-1,2,2-triphenylethanol were prepared from the corresponding enantiomer of the mandelic acid-derived ethanediol. Regioisomeric amino alcs. were converted into the corresponding imines by condensation with ortho-formylphenols and the reaction of 1 with aldehydes also produced enantiomeric imines. The Ti complexes prepared with the imines were used as catalysts for the addition of diethylzinc to benzaldehyde and to obtain S-(-)-1-phenyl-1-propanol in up to 92% ee. The chloro-substituted Ti complexes mediate the Torgov cyclization reaction of secodione to obtain the estrone derivative In both reactions, Ti complexes derived from 1 show higher enantioselectivity than that of complexes based on a regioisomeric amino alc.

ACCESSION NUMBER: 2004:356765 CAPLUS
DOCUMENT NUMBER: 141:243313
TITLE: The regioisomeric triphenylaminoethanols - comparison of their efficiency in enantioselective catalysis
AUTHOR(S): Braun, Manfred; Fleischer, Ralf; Mai, Brigitte; Schneider, Marc-Andre; Lachenicht, Stefan
CORPORATE SOURCE: Institut fuer Organische Chemie und Makromolekulare Chemie, Universitaet Duesseldorf, Duesseldorf, 40225, Germany
SOURCE: Advanced Synthesis & Catalysis (2004), 346(4), 474-482 CODEN: ASCAF7; ISSN: 1615-4150
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:243313

IT 749228-60-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of triphenylaminoethanol stereoisomers and Ti complexes and catalyst activity in enantioselective addition and cyclization reactions)

RN 749228-60-2 CAPLUS
CN Benzeneethanol, β-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-α,α-diphenyl-, (βR)- (9CI) (CA INDEX NAME)

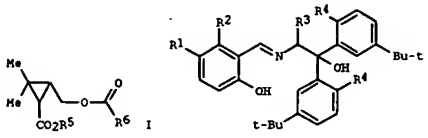
Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

GI



AB Title compds. I (R5 = alkyl, aryl; R6 = alkyl, aryl, aralkyl) are prepared by treatment of N2CHCO2R5 (R5 = same as above) with Me2C:CHCH2O2CR6 (R6 = same as above) in the presence of asym. catalysts prepared from Cu compds. and optically active salicyclideneamines II (R1 = H, halo, lower alkoxycarbonyl, NO2, fluoroalkyl; R2 = H, Me3Si, tert-butyldimethylsilyl; R3 = lower alkyl, aryl, aralkyl; R4 = C4-10 alkoxy). Thus, Me2C:CHCH2O2CMe was treated with N2CHCO2Et in the presence of phenylhydrazine and asym. catalyst [prepared from Cu acetate and (R)-N-(5-nitrosalicylidene)-2-amino-1,1-di-(5-tert-butyl-2-butoxyphenyl)-1-propanol] to give 68% I (R5 = Et, R6 = Me) with cis/trans ratio being 75/25.

ACCESSION NUMBER: 2004:139052 CAPLUS
DOCUMENT NUMBER: 140:181158
TITLE: Preparation of cis-rich optically active cyclopropanecarboxylic acid esters
INVENTOR(S): Itagaki, Makoto; Minamida, Ryu
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp. CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004051499	A2	20040219	JP 2002-208055	20020717
PRIORITY APPLN. INFO.:			JP 2002-208055	20020717

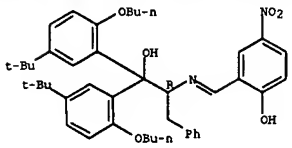
OTHER SOURCE(S): MARPAT 140:181158

IT 352014-93-8 352018-08-7
RL: CAT (Catalyst use); USES (Uses)
(preparation of cis-rich optical active cyclopropanecarboxylic acid esters
from diazoacetic acid esters and olefins)

RN 352014-93-8 CAPLUS
CN Benzenepropanol, α,α-bis[2-butoxy-5-(1,1-dimethylethyl)phenyl]-β-[[(2-hydroxy-5-nitrophenyl)methylene]amino]-, (βR)- (9CI) (CA INDEX NAME)

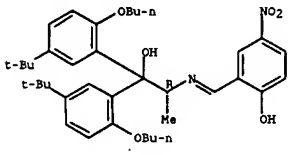
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



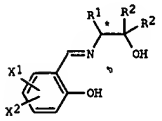
RN 352018-08-7 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 6 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

GI



AB A method is described for the synthesis of an optically active copper(II) salicylaldimine complex by reacting an optically active amino alc. compound (I; R1 and R2 are independently lower alkyl groups and the like which may be substituted, X1 and X2 are independently a hydrogen atom, lower alkyl groups and the like, the symbol * designates an asym. carbon atom.) with copper(II) hydroxide in an organic solvent. Thus, the copper(II) complex of (R)-N-(5-nitrosalicylidene)-1,1-di(2-methoxyphenyl)-1-propanol-2-amine was prepared and shown to catalyze the reaction of 2,5-dimethyl-2,4-hexadiene with Et diazoacetate to give Et 3,3-dimethyl-2-(2-methyl-1-propenyl)cyclopropanecarboxylate with a trans/cis ratio of 59/41 and an optical purity of 59% ee for the trans isomer and 55% ee for the cis isomer.

ACCESSION NUMBER: 2003:985769 CAPLUS
DOCUMENT NUMBER: 140:34926
TITLE: Method for producing optically active salicylaldimine copper complex as cyclopropanation catalyst
INVENTOR(S): Makoto, Itagaki; Koji, Hagiya
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: Eur. Pat. Appl., 10 pp. CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1371631	A1	20031217	EP 2003-12932	20030606
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004018379	A2	20040122	JP 2002-171033	20020612
CN 1467211	A	20040114	CN 2003-141104	20030606
US 2003233003	A1	20031218	US 2003-457514	20030610
US 6852871	B2	20050208		
PRIORITY APPLN. INFO.:			JP 2002-171033 A	20020612

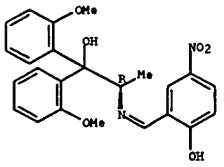
OTHER SOURCE(S): CASREACT 140:34926; MARPAT 140:34926

IT 352015-01-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant for preparation of chiral copper(II) salicylaldimine complex as enantioselective cyclopropanation catalyst)

RN 352015-01-1 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)-

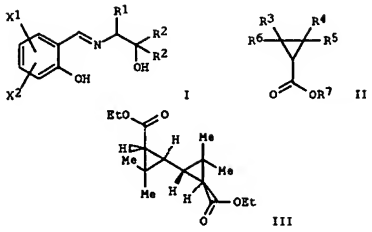
L4 ANSWER 6 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Asym. ligands with general formula of I [wherein R1 = (un)substituted (cyclo)alkyl, aralkyl, or aryl; R2 = H, (cyclo)alkyl, (un)substituted aralkyl, or (un)substituted Ph; X1 and X2 = independently H, halo, NO2, alkyl, alkoxy, or CN] are used to react with cobalt compds. to obtain asym. cobalt complex. The cobalt complex is used as catalyst to produce optically active cyclopropane derivs. II [wherein R3, R4, R5, and R6 = independently H, halo, (un)substituted alkyl, alkenyl, aryl, or aralkyl; or R3 and R4 or R3 and R6 together form (CH2)n; with one proviso; n= 2-5; R7 = alkyl, (un)substituted cycloalkyl, Ph, PhCH2]. For example, (+)-(R)-N-(3,5-di-tert-butylsalicylidene)-2-amino-1,1,-diphenyl-1-propanol was reacted with Co(OAc)2 in PhMe in the presence of NaOMe to give the catalyst. 2,5-Dimethyl-2,4-hexadiene was treated with Et diazoacetate in PhMe in the presence of the above catalyst to afford the cyclopropane III (85%) with trans/cis = 66/34 ((+)-trans 33% e.e.; (-)-cis 26% e.e.).

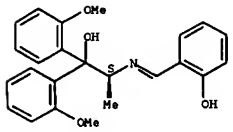
ACCESSION NUMBER: 2002:944704 CAPLUS
DOCUMENT NUMBER: 138:39090
TITLE: The asymmetrical cobalt complex and its catalytic application for the preparation of optically active cyclopropane derivatives
INVENTOR(S): Yamamoto, Michio; Suzukamo, Takeo
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002356466	A2	20021213	JP 2001-162068	20010530

PRIORITY APPLN. INFO.: JP 2001-162068 20010530
OTHER SOURCE(S): MARPAT 138:39090
IT 57685-41-3 95341-87-0 235415-81-3
478398-54-8 478398-55-9

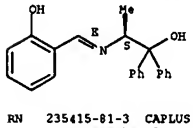
L4 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RL: CAT (Catalyst use); USES (Uses)
(asym. cobalt complex and its catalytic application for the prepn. of optically active cyclopropane derivs.)
RN 57685-41-3 CAPLUS
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



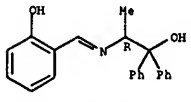
RN 95341-87-0 CAPLUS
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl-, [S-(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



RN 235415-81-3 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

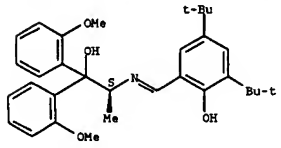
Absolute stereochemistry.
Double bond geometry unknown.



RN 478398-54-8 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

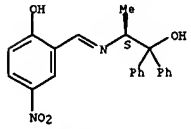
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



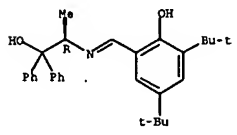
RN 478398-55-9 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



IT 478398-48-0P
RL: CAT (Catalyst use); IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(asym. cobalt complex and its catalytic application for the preparation of optically active cyclopropane derivs.)
RN 478398-48-0 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 8 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

AB Title method involves (1) treating transition metal compds. MR4 [M = Group 4 transition metals; R = (un)substituted hydrocarbyl] with ligands forming covalent bonds with M and (2) supplying the resulting metal complexes to polymerization of olefins without isolation. Thus, ethylene was polymerized in the presence of MMAO and a reaction product of an optically active Schiff base-type alc. and tetrabenzylzirconium to give polyethylene in polymerization activity 6.7 + 10⁴ g polymer/mol Zr-h.

ACCESSION NUMBER: 2002:900843 CAPLUS
DOCUMENT NUMBER: 138:4858
TITLE: Evaluation of ligands as catalyst precursors for polymerization of olefins
INVENTOR(S): Kobayashi, Satoshi; Hino, Takahiro; Hanaoka, Hidenori
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

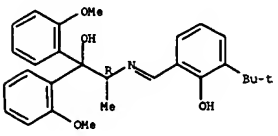
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002338616	A2	20021127	JP 2001-142974	20010514

PRIORITY APPLN. INFO.: JP 2001-142974 20010514
OTHER SOURCE(S): MARPAT 138:4858

IT 357611-09-7DP, reaction products with tetrabenzylzirconium
357611-15-5DP, reaction products with tetrabenzylzirconium
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(easy evaluation of ligands as catalyst precursors for polymerization of olefins)

RN 357611-09-7 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

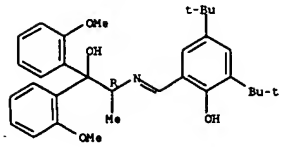
Absolute stereochemistry.
Double bond geometry unknown.



RN 357611-15-5 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 8 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 9 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

AB Disclosed is a method for producing an optically active chrysanthemic acid characterized by optical resolution of a chrysanthemic acid having a trans isomer ratio of not less than 70% and an optical purity of 2% e.e. to less than 10% e.e. using an optically active organic amine, such as X-C6H4CH(NR1R2)CH2C6H4-Y [R1, R2 = H, alkyl, arylalkyl; X, Y = H, halogen, alkyl, alkoxy]. Thus, a cis/trans-mixture of chrysanthemic acid having 7.9% e.e. with respect to the trans isomer and 26.8% e.e. with respect to the cis isomer was treated with (S)-1-phenyl-2-(p-tolyl)ethylamine in toluene to give (+)-trans-chrysanthemic acid with 95% e.e. and (+)-cis-chrysanthemic acid with 98% e.e. and 34.3% overall yield.

ACCESSION NUMBER: 2002:671901 CAPLUS
DOCUMENT NUMBER: 137:185689
TITLE: Method for producing optically active chrysanthemic acid
INVENTOR(S): Suzukamo, Gohfu; Sasaki, Kazuaki
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

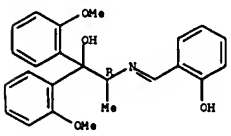
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1236708	A1	20020904	EP 2002-4412	20020226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002123645	A1	20020905	US 2002-83575	20020227
CN 1373116	A	20021009	CN 2002-2105365	20020227
JP 2002326971	A2	20021115	JP 2002-53314	20020228

PRIORITY APPLN. INFO.: JP 2001-53963 A 20010228
OTHER SOURCE(S): MARPAT 137:185689

IT 235415-80-2
RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
(method for producing optically active chrysanthemic acid via diastereoisomeric salt formation with an optically active organic amine and copper catalyzed stereoselective cyclopropanation)

RN 235415-80-2 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

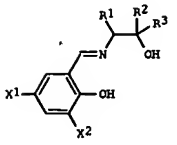
Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L4 ANSWER 10 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



I

AB Crystalline optically active nitro- or halo-salicylideneamino alc. copper complexes, useful as diazotization catalysts in asym. synthesis, were prepared by treatment of optically active salicylideneamino alcs. I [R1, R2 = (un)substituted lower alkyl, (un)substituted aralkyl, (un)substituted aryl; X1 = NO2, Cl, H; when X1 = NO2, then X2 = H; when X1 = Cl, then X2 = Cl; X1 = H, then X2 = F] with Cu(II) compds. in organic solvents, followed by crystallization Thus, (R)-N-(5-nitrosalicylidene)-2-amino-1,1-di(2-methoxyphenyl)-1-propanol was treated with (AcO)2Cu at 80° for 1 h in MePh and cooled to give 82.0% Cu complex crystals.

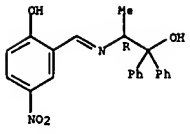
ACCESSION NUMBER: 2002:650009 CAPLUS
DOCUMENT NUMBER: 137:194549
TITLE: Preparation of crystalline optically active nitro- or halo-salicylideneamino alcohol copper complexes
INVENTOR(S): Itagaki, Makoto; Kamitamari, Masashi; Hagitani, Hirotoshi
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002241356	A2	20020828	JP 2001-41390	20010219
PRIORITY APPLN. INFO.:			JP 2001-41390	20010219

OTHER SOURCE(S): MARPAT 137:194549
IT 352014-87-0 352015-01-1 352018-06-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant for preparation of optically active copper salicylideneamino alc.
complexes as diazotization catalysts in asym. synthesis)
RN 352014-87-0 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

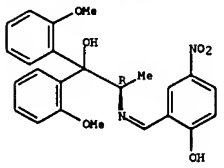
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 10 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



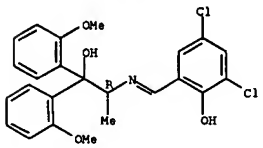
RN 352015-01-1 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

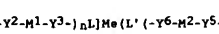


RN 352018-06-5 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(3,5-dichloro-2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

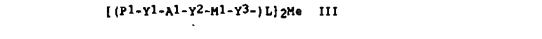
Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI

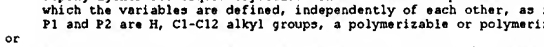


I



II

III



IV

AB The present invention involves the use of chiral, uncharged compds. as doping agents for liquid crystals. The indicated compds. are I or II, for which the variables are defined, independently of each other, as follows: P1 and P2 are H, C1-C12 alkyl groups, a polymerizable or polymerized group, or a group containing such a polymerizable group; Y1 through Y6 are groups -O-, -S-, -CO-, -CO-O-, -O-CO-, -CO-N(R)-, -(R)N-CO-, -O-CO-O-, -O-CO-N(R)-, (R)N-CO-O-, or -(R)N-CO-N(R)-; R is H or a C1-C4 alkyl; A1 and A2 are spacers with up to 30 C atoms; M1 and M2 are mesogen groups; n' and n equal 0 or 1; m is 1, 2, or 3, in which the group L'(-Y6-M2-Y5-A2-Y4-P2)n in formula II can represent different moieties; Me is either a transition metal of the 4th, 5th, or 6th period (with the exception of Tc, Ag, Cd, Au, Hg, and the lanthanides) or a Group IVA element (with the exception of C and Pb); L is a tridentate ligand including N-, O-, P-, or S-containing groups, over which ≥1 free electron pair is available for coordination to the metal Me; and L' is an organic group with up to 12 C atoms. The invention also includes compds. III and IV, for which all variables are the same as for the previous compound, as well as liquid crystalline compds. containing ≥1 of the indicated compds.

ACCESSION NUMBER: 2002:446122 CAPLUS
DOCUMENT NUMBER: 137:26396
TITLE: Use of chiral, uncharged metal compounds as doping agents for liquid crystals
INVENTOR(S): Prechtl, Frank; Haremza, Sylke; Parker, Robert; Kuerschner, Kathrin; Braun, Manfred; Hahn, Antje; Fleischer, Ralf
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
SOURCE: Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1213293	A1	20020612	EP 2001-128679	20011201
EP 1213293	B1	20040623		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

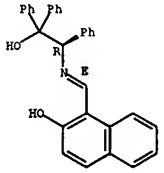
L4 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

DE 10061625	A1	20020613	DE 2000-10061625	20001211
JP 2002220366	A2	20020809	JP 2001-377549	20011211
US 2003066984	A1	20030410	US 2001-11748	20011211
US 6695977	B2	20040224		
PRIORITY APPLN. INFO.:			DE 2000-10061625	A 20001211

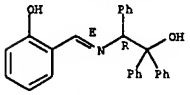
IT 210582-38-0P
RL: MOA (Modifier or additive use); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(liquid crystal dopant; use of chiral, uncharged metal compds. as doping agents for liquid crystals)
RN 210582-38-0 CAPLUS
CN 2-Naphthalenol, 1-[(E)-[[(1R)-2-hydroxy-1,2,2-triphenylethyl]imino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



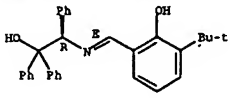
IT 210582-35-7P 210582-36-8P 434903-94-3P 434903-95-4P 434903-96-5P 434903-97-6P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(liquid crystal dopant; use of chiral, uncharged metal compds. as doping agents for liquid crystals)
RN 210582-35-7 CAPLUS
CN Benzeneethanol, β-[(E)-[(2-hydroxyphenyl)methylene]amino]-α,α-diphenyl-, (βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



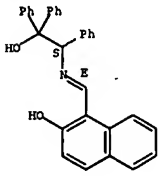
RN 210582-36-8 CAPLUS
CN Benzeneethanol, β-[(E)-[(3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-α,α-diphenyl-, (βR)- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Absolute stereochemistry.
Double bond geometry as shown.



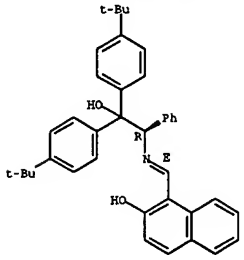
RN 434903-94-3 CAPLUS
CN 2-Naphthalenol, 1-[(E)-[[(1S)-2-hydroxy-1,2,2-triphenylethyl]imino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



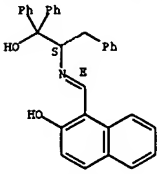
RN 434903-95-4 CAPLUS
CN 2-Naphthalenol, 1-[(E)-[[(1R)-2,2-bis[4-(1,1-dimethylethyl)phenyl]-2-hydroxy-1-phenylethyl]imino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



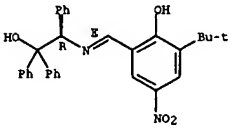
L4 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RN 434903-96-5 CAPLUS
CN 2-Naphthalenol, 1-[(E)-[[(1S)-2-hydroxy-2,2-diphenyl-1-(phenylmethyl)ethyl]imino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



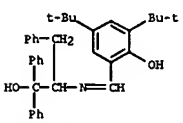
RN 434903-97-6 CAPLUS
CN Benzeneethanol, β-[(E)-[[3-(1,1-dimethylethyl)-2-hydroxy-5-nitrophenyl]methylene]amino]-α,α-diphenyl-, (βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
AB Starting from easily available chiral Schiff bases, a straightforward synthesis of air-stable titanium(IV) complexes was devised. Asym. pinacol coupling of aromatic aldehydes mediated and catalyzed by the corresponding low valent complexes afforded the chiral diols with high yields and enantioselectivities up to 91%.
ACCESSION NUMBER: 2001:792722 CAPLUS
DOCUMENT NUMBER: 136:69626
TITLE: Enantioselective Pinacol Coupling of Aldehydes Mediated and Catalyzed by Chiral Titanium Complexes
AUTHOR(S): Bensari, Ahlem; Renaud, Jean-Luc; Riant, Olivier
CORPORATE SOURCE: Laboratoire de Chimie Organique et Medicinale Departement de Chimie Place Louis Pasteur 1, Universite Catholique de Louvain, Louvain la Neuve, 1348, Belg.
SOURCE: Organic Letters (2001), 3(24), 3863-3865 CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:69626
IT 384331-52-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective pinacol coupling of aromatic aldehydes using a reduced titanium Schiff base complex)
RN 384331-52-6 CAPLUS
CN Benzenepropanol, β-[[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-α,α-diphenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI

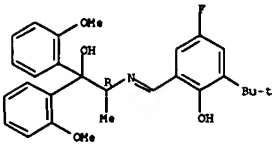
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The catalysts contain transition metal complexes I [R1-4, R6, R7 = H, halo, (un)substituted C1-20-hydrocarbon group, alkoxy, sulfonamide, imino, nitro, phosphino, thiophosphate group, etc.; R5 = H, C1-20-hydrocarbon group; X = halo, C1-20-hydrocarbon group, alkylthio, acyloxy, sulfonamide group, etc.; L = neutral ligand; M = IV-X group transition metal; p = 1-6; q ≥ 1; r, s = ≥0 (corresponding to valence of M)]. Thus, optically active Schiff base amino alc. II was reacted with TiCl4 in the presence of Et3N to give Ti complex III, which was mixed with methylaluminoxane to show catalyst activity 8.0 + 104 g/mol-Ti-h in ethylene polymerization
ACCESSION NUMBER: 2001:651421 CAPLUS
DOCUMENT NUMBER: 135:211431
TITLE: Transition metal complexes, olefin polymerization catalysts containing them, and their manufacture
INVENTOR(S): Kobayashi, Satoshi; Hino, Takahiro
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp. CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001240611	A2	20010904	JP 2000-390704	20001222
PRIORITY APPLN. INFO.:			JP 1999-366990 A	19991224

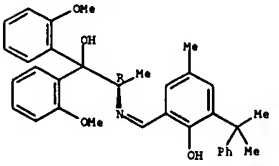
OTHER SOURCE(S): MARPAT 135:211431
IT 357611-16-6P 357611-17-7P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(Schiff-base amino alc. transition metal complexes for olefin polymerization catalysts)
RN 357611-16-6 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3-(1,1-dimethylethyl)-5-fluoro-2-hydroxyphenyl]methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



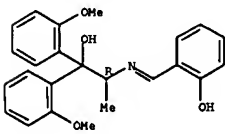
RN 357611-17-7 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[2-hydroxy-5-methyl-3-(1-methyl-1-phenylethyl)phenyl]methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

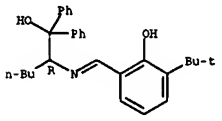


IT 235415-80-2 357611-09-7 357611-10-0
357611-11-1 357611-12-2 357611-13-3
357611-14-4 357611-15-5 357611-18-8
357611-19-9 357611-20-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(Schiff-base amino alc. transition metal complexes for olefin polymerization
catalysts)
RN 235415-80-2 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

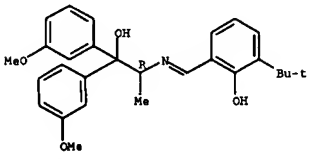


Absolute stereochemistry.
Double bond geometry unknown.



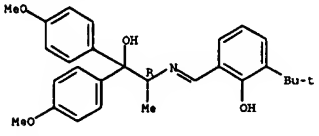
RN 357611-13-3 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-3-methoxy-α-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 357611-14-4 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-4-methoxy-α-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

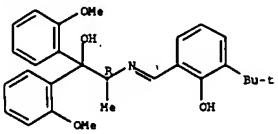


RN 357611-15-5 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

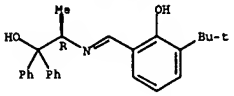
RN 357611-09-7 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



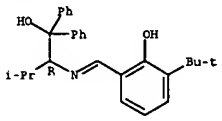
RN 357611-10-0 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



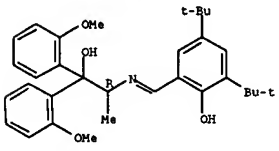
RN 357611-11-1 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-2-methylpropyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



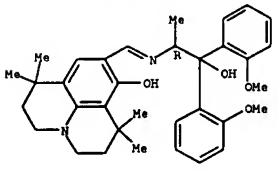
RN 357611-12-2 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]pentyl]-α-phenyl- (9CI) (CA INDEX NAME)

Double bond geometry unknown.



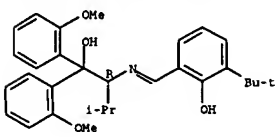
RN 357611-18-8 CAPLUS
CN 1H,5H-Benzo[ij]quinolizin-8-ol, 2,3,6,7-tetrahydro-9-[[[(1R)-2-hydroxy-2,2-bis(2-methoxyphenyl)-1-methylethyl]imino]methyl]-1,1,7,7-tetramethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 357611-19-9 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-2-methylpropyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

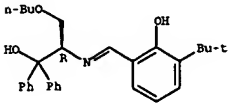
Absolute stereochemistry.
Double bond geometry unknown.



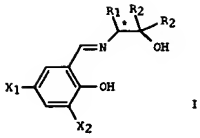
RN 357611-20-2 CAPLUS
CN Benzenemethanol, α-[(1R)-2-butoxy-1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 13 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 14 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



I

AB The preparation is described for optically active salicylideneaminoalc. compds.
of formula (I): wherein R1 represents an alkyl group or the like, R2 represents an aryl group and the like, and when X1 represents a nitro, X2 is a hydrogen atom, when X1 represents a chlorine atom, X2 is a chlorine atom, and when X1 is a hydrogen atom, X2 is a fluorine atom; and the carbon atom denoted by * is an asym. carbon atom having either an S or R configuration. [Cu2L2] (H2L = I) were prepared, isolated and used as catalysts for the preparation of cyclopropanecarboxylate derivs. Thus, [Cu2L2]
[H2L = (R)-N-5-nitrosalicylidene-2-amino-1,1-di(2-methoxyphenyl)-1-propanol) was prepared as used as a catalyst for the reaction of 2,5-dimethyl-2,4-hexadiene with Et diazoacetate to give Et chrysanthemate (58:42 trans:cis) with enantiomeric excesses of 63% for the trans isomer and 57% for the cis isomer.

ACCESSION NUMBER: 2001:559584 CAPLUS
DOCUMENT NUMBER: 135:146292
TITLE: Preparation of chiral copper salicylideneaminoalcohol complexes and their use as stereoselective cyclopropanation catalysts for preparation of cyclopropanecarboxylate derivatives
INVENTOR(S): Kamitamari, Masashi; Suzukamo, Gohfu; Yamamoto, Michio; Hagiya, Koji; Itagaki, Makoto
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1120402	A2	20010801	EP 2001-101451	20010123
EP 1120402	A3	20020515		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001278853	A2	20011010	JP 2001-7513	20010116
US 2002004618	A1	20020110	US 2001-766575	20010123
US 6670500	B2	20031230		
CN 1313277	A	20010919	CN 2001-111322	20010125

PRIORITY APPLN. INFO.: JP 2000-16279 A 20000125

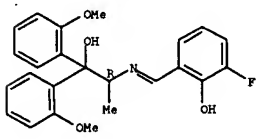
L4 ANSWER 14 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
JP 2000-16280 A 20000125
JP 2000-18595 A 20000127

OTHER SOURCE(S): MARPAT 135:146292

IT 352018-07-6P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation and use as stereoselective cyclopropanation catalyst composition
with copper salts)

RN 352018-07-6 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(3-fluoro-2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

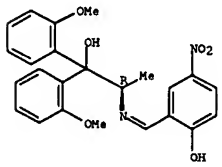
Absolute stereochemistry.
Double bond geometry unknown.



IT 352015-01-1DP, copper dimethylhexadiene complex
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation of chiral copper salicylideneaminoalc. complexes and their use
as stereoselective cyclopropanation catalysts for preparation of cyclopropanecarboxylate derivs.)

RN 352015-01-1 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

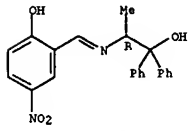


IT 352014-87-0P 352015-01-1P 352018-06-5P
352018-08-7P
RL: CAT (Catalyst use); RCT (Reactant); SPN (Synthetic preparation); PREP

L4 ANSWER 14 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn., use as stereoselective cyclopropanation catalyst compn. with copper salts and reactant for prepn. of copper salicylideneaminoalc. complex)

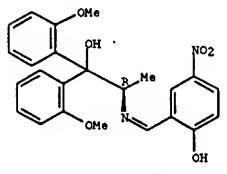
RN 352014-87-0 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 352015-01-1 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

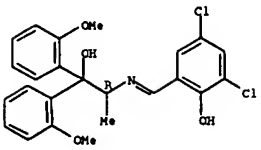
Absolute stereochemistry.
Double bond geometry unknown.



RN 352018-06-5 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(3,5-dichloro-2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

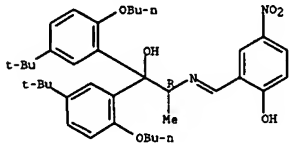
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 14 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



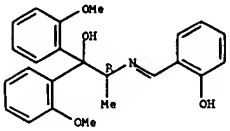
RN 352018-08-7 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



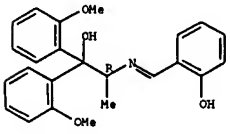
IT 235415-80-2
RL: CAT (Catalyst use); USES (Uses)
(stereoselective cyclopropanation catalyst composition with copper salts)
RN 235415-80-2 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



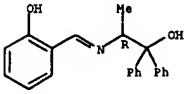
L4 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
IT 235415-80-2P 235415-81-3P 352014-84-7P
352014-85-8P 352014-86-9P 352014-87-0P
352014-88-1P 352014-89-2P 352014-90-5P
352014-91-6P 352014-92-7P 352014-93-8P
352014-94-9P 352014-95-0P 352014-96-1P
352014-97-2P 352014-98-3P 352014-99-4P
352015-00-0P 352015-01-1P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(chiral copper(I) and copper(II) salicylideneaminoalc. complex catalyst compns. for use in asym. synthesis of cyclopropanecarboxylic acid esters)
RN 235415-80-2 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 235415-81-3 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

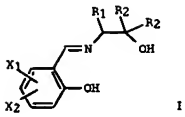
Absolute stereochemistry.
Double bond geometry unknown.



RN 352014-84-7 CAPLUS
CN Benzenemethanol, 2-(1,1-dimethylethoxy)-α-[2-(1,1-dimethylethoxy)-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1R)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



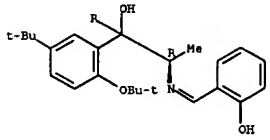
I

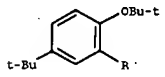
AB Chiral copper complex catalyst compns. obtained by contacting an optically active N-salicylideneaminoalc. compound (I) with a monovalent or divalent copper compound in an inert solvent, where R1 and R2 represent an alkyl group and the like, X1 and X2 represent a hydrogen atom, a halogen atom, a nitro group, an alkyl group, an alkoxy group, a cyano group or the like, and the amount of the monovalent or divalent copper compound is <1 mol per mol of I. A process for producing an optically active cyclopropane-carboxylic acid ester using the chiral copper catalysts is described. Thus, (R)-N-salicylidene-2-amino-1,1-di(2-butoxy-5-tert-butylphenyl)-1-propanol was prepared and mixed with copper naphthenate or copper acetate monohydrate in toluene to generate an optically active copper complex catalyst solution Cis and trans-chrysanthemic acid Et ester were prepared (≈60:40 trans:cis) with enantiomeric excesses of up to 71% for the trans isomer and 60% for the cis isomer were prepared using the chiral copper catalyst compns.

ACCESSION NUMBER: 2001:559583 CAPLUS
DOCUMENT NUMBER: 135:137235
TITLE: Chiral copper complex catalyst compositions for use in asymmetric production process of cyclopropanecarboxylic acid esters
INVENTOR(S): Suzukamo, Gohfu; Itagaki, Makoto; Yamamoto, Michio
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1120401	A2	20010801	EP 2001-101450	20010123
EP 1120401	A3	20020123		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2001037036	A1	20011101	US 2001-766579	20010123
US 6469198	B2	20021022		
CN 1314209	A	20010926	CN 2001-111976	20010125
JP 2001278851	A2	20011010	JP 2001-16782	20010125
PRIORITY APPLN. INFO.:			JP 2000-16279 A	20000125
			JP 2000-18595 A	20000127
OTHER SOURCE(S):	MARPAT 135:137235			

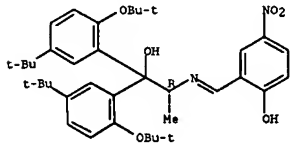
L4 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)





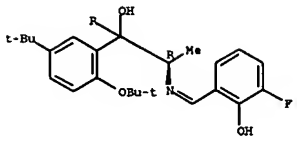
RN 352014-85-8 CAPLUS
CN Benzenemethanol, 2-(1,1-dimethylethoxy)-α-[2-(1,1-dimethylethoxy)-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

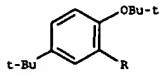
Absolute stereochemistry.
Double bond geometry unknown.



RN 352014-86-9 CAPLUS
CN Benzenemethanol, 2-(1,1-dimethylethoxy)-α-[2-(1,1-dimethylethoxy)-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1R)-1-[[(3-fluoro-2-hydroxyphenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

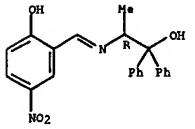
Absolute stereochemistry.
Double bond geometry unknown.





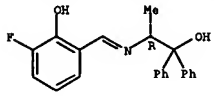
RN 352014-87-0 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



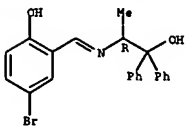
RN 352014-88-1 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(3-fluoro-2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



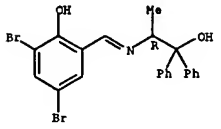
RN 352014-89-2 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(5-bromo-2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 352014-90-5 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(3,5-dibromo-2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 352014-91-6 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxy-5-nitrophenyl)methylene]amino]-3-(1-methylethoxy)-α,α-bis[5-methyl-2-(phenylmethoxy)phenyl]-, (βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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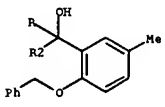
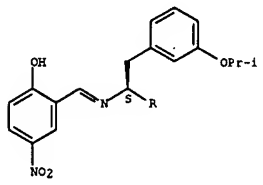
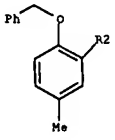


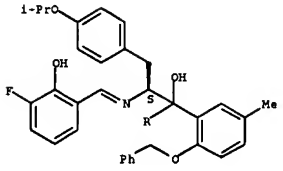


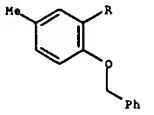
PAGE 2-A



RN 352014-92-7 CAPLUS
CN Benzenepropanol, β-[[(3-fluoro-2-hydroxyphenyl)methylene]amino]-4-(1-methylethoxy)-α,α-bis[5-methyl-2-(phenylmethoxy)phenyl]-, (βS)- (9CI) (CA INDEX NAME)

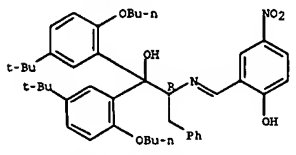
Absolute stereochemistry.
Double bond geometry unknown.





RN 352014-93-8 CAPLUS
CN Benzenepropanol, α,α-bis[2-butoxy-5-(1,1-dimethylethyl)phenyl]-β-[[(2-hydroxy-5-nitrophenyl)methylene]amino]-, (βR)- (9CI) (CA INDEX NAME)

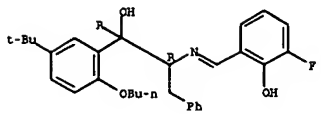
Absolute stereochemistry.
Double bond geometry unknown.

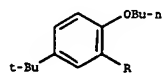


RN 352014-94-9 CAPLUS
CN Benzenepropanol, α,α-bis[2-butoxy-5-(1,1-dimethylethyl)phenyl]-β-[[(3-fluoro-2-hydroxyphenyl)methylene]amino]-, (βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

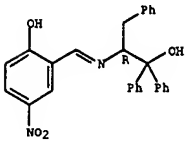
L4 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)





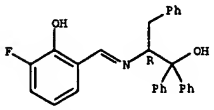
RN 352014-95-0 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxy-5-nitrophenyl)methylene]amino]-α,α-diphenyl-, (βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 352014-96-1 CAPLUS
CN Benzenepropanol, β-[[(3-fluoro-2-hydroxyphenyl)methylene]amino]-α,α-diphenyl-, (βR)- (9CI) (CA INDEX NAME)

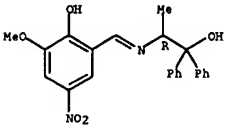
Absolute stereochemistry.
Double bond geometry unknown.



RN 352014-97-2 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]-2-methylpropyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

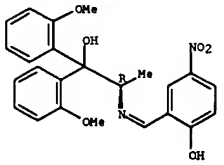
Absolute stereochemistry.

L4 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

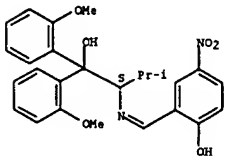


RN 352015-01-1 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

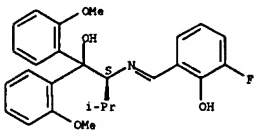


L4 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Double bond geometry unknown.



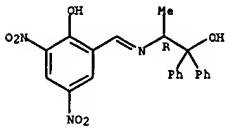
RN 352014-98-3 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[(3-fluoro-2-hydroxyphenyl)methylene]amino]-2-methylpropyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 352014-99-4 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-3,5-dinitrophenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 352015-00-0 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxy-3-methoxy-5-nitrophenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
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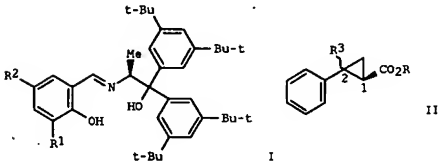


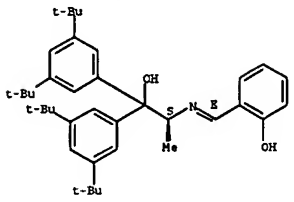
AB Asym. cyclopropanation of styrene with alkyl diazoacetates, N2CHCO2R (R = Et, Bu-i), catalyzed by copper complexes of Schiff bases I (R1 = R2 = H, CMe3, Cl, NO2; R1 = H, R2 = CMe3, Cl, NO2), which were derived from the corresponding substituted salicylaldehydes and (S)-amino alc., gave cyclopropanecarboxylates II (R = Et, Bu-i, R3 = α-, β-H). The electronic and steric properties, as well as the position of substituents on the Schiff base ligands showed obvious effects on the enantioselectivities, i.e. higher than 98% were achieved under optimal conditions. E.g., styrene was reacted with N2CHCO2Et at 40° in the presence of the catalyst formed from Cu(OAc)2 and ligand I (R1 = R2 = NO2) to give (1R,2S)-cis-II (R = Et, R3 = α-H) and (1R,2R)-trans-II (R = Et, R3 = β-H) in 90.5% overall yield with a 41.5/58.5 cis/trans ratio and 89.6% ee for the cis isomer and 79.9% ee for the trans isomer.

ACCESSION NUMBER: 2001:107130 CAPLUS
DOCUMENT NUMBER: 134:266041
TITLE: Asymmetric cyclopropanation catalyzed by copper-Schiff's base complexes
AUTHOR(S): Li, Zhengning; Zheng, Zhou; Wan, Boshun; Chen, Huilin
CORPORATE SOURCE: Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, 116023, Peop. Rep. China
SOURCE: Journal of Molecular Catalysis A: Chemical (2001), 165(1-2), 67-71
CODEN: JMCCF2; ISSN: 1381-1169
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:266041

IT 332052-36-5DP, copper complexes with 332052-38-7DP, copper complexes with 332052-40-1DP, copper complexes with 332052-41-2DP, copper complexes with 332052-42-3DP, copper complexes with 332052-43-4DP, copper complexes with 332052-44-5DP, copper complexes with
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(asym. cyclopropanation catalyzed by salicylaldehyde Schiff base complexes with copper)

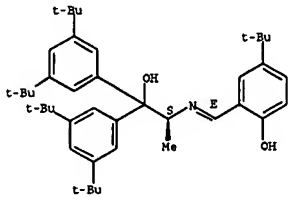
RN 332052-36-5 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)-α-[(1S)-1-[(E)-[(2-hydroxyphenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



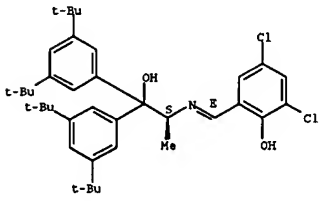
RN 332052-38-7 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)-α-[(1S)-1-[(E)-[[5-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



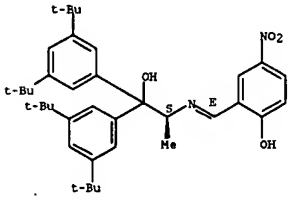
RN 332052-40-1 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[(E)-[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



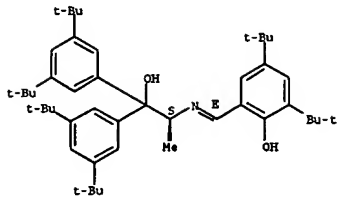
RN 332052-43-4 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)-α-[(1S)-1-[(E)-[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



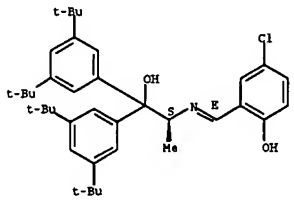
RN 332052-44-5 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)-α-[(1S)-1-[(E)-[(2-hydroxy-3,5-dinitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



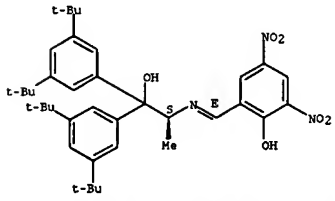
RN 332052-41-2 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-α-[(1S)-1-[(E)-[(5-chloro-2-hydroxyphenyl)methylene]amino]ethyl]-3,5-bis(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



RN 332052-42-3 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-α-[(1S)-1-[(E)-[(3,5-dichloro-2-hydroxyphenyl]methylene]amino]ethyl]-3,5-bis(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

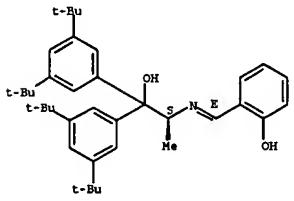
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



IT **332052-36-5P 332052-38-7P 332052-40-1P**
332052-41-2P 332052-42-3P 332052-43-4P
332052-44-5P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(asym. cyclopropanation catalyzed by salicylaldehyde Schiff base complexes with copper)

RN 332052-36-5 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)-α-[(1S)-1-[(E)-[(2-hydroxyphenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

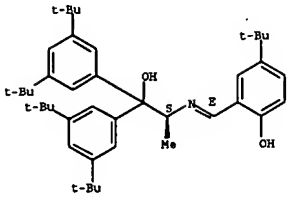
Absolute stereochemistry.
Double bond geometry as shown.



RN 332052-38-7 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)-α-[(1S)-1-[(E)-[[5-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

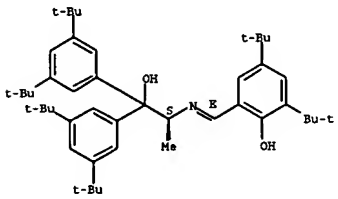
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

L4 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 332052-40-1 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[(E)-[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

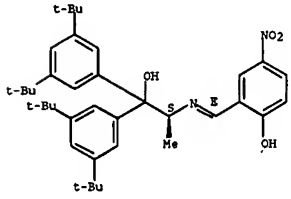
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



RN 332052-41-2 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-α-[(1S)-1-[(E)-[(5-chloro-2-hydroxyphenyl)methylene]amino]ethyl]-3,5-bis(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

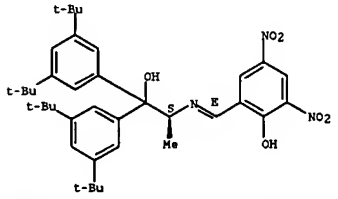
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

L4 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



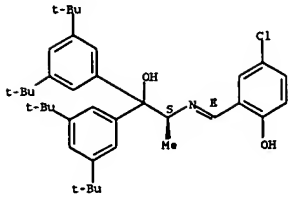
RN 332052-44-5 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)-α-[(1S)-1-[(E)-[(2-hydroxy-3,5-dinitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



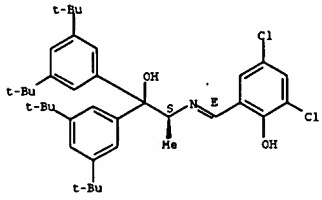
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 332052-42-3 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-α-[(1S)-1-[(E)-[(3,5-dichloro-2-hydroxyphenyl)methylene]amino]ethyl]-3,5-bis(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

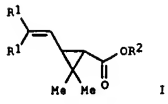
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



RN 332052-43-4 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)-α-[(1S)-1-[(E)-[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

L4 ANSWER 17 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



I

AB Title compds. I (R1 = H, halo, (un)substituted alkyl, alkenyl, aralkyl, arylthio, etc.; R2 = alkyl, aralkyl) are prepared by reaction of R12C:CHCH:CMe2 (R1 = same as above) with N2CHCO2R2 (R2 = same as above) in the presence of (1) optically active amino alcs. and Cu salts, (2) optically active oxazolines and Cu salts, and (3) optically active oxazolines and transition metal salts. Cu(OAc)2.H2O was reacted with (S)-N-salicylidene-2-amino-1,1-diphenyl-1-propanol in the presence of NaOMe at 80° for 30 min and treated with 2,5-dimethyl-2,4-hexadiene with 3-phenoxybenzyl diazoacetate in PhMe in the presence of phenylhydrazine at 80° for 2 h to give 85% 3-phenoxybenzyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate with trans:cis ratios of 63:37.

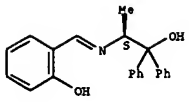
ACCESSION NUMBER: 2000:677398 CAPLUS
DOCUMENT NUMBER: 133:252072
TITLE: Preparation of optically active cyclopropanecarboxylic acids
INVENTOR(S): Hassila, Heikki; Ikehira, Hideyuki
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000264861	A2	20000926	JP 1999-71814	19990317

PRIORITY APPLN. INFO.: JP 1999-71814 19990317
OTHER SOURCE(S): CASREACT 133:252072; MARPAT 133:252072
IT 78679-29-5, (S)-N-Salicylidene-2-amino-1,1-diphenyl-1-propanol
RL: RCT (Reactant); RACT (Reactant or reagent)
(catalyst ligand; preparation of optically active cyclopropanecarboxylic acids by condensation of butadienes with diazoacetates)
RN 78679-29-5 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 17 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 18 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

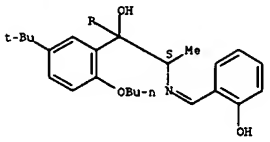
AB Asym. cyclopropanation of olefins was carried out with chiral copper-Schiff base complexes derived from copper acetate monohydrate, substituted salicylaldehydes and a chiral amino alc. Substituents on salicylaldehyde framework demonstrate a significant effect on the stereoselectivity. Those with electron-withdrawing properties enhance the selectivities, whereas bulky substituents in ortho position to the phenol hydroxy group decrease the selectivities. An ee of more than 98% was achieved for the reaction of styrene with diazoacetate.

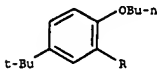
ACCESSION NUMBER: 2000:645089 CAPLUS
DOCUMENT NUMBER: 133:362451
TITLE: Asymmetric Cyclopropanation of Styrene Catalyzed by Cu-(Chiral Schiff-Base) Complexes
AUTHOR(S): Li, Z.; Liu, G.; Zheng, Z.; Chen, H.
CORPORATE SOURCE: Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, 116023, Peop. Rep. China
SOURCE: Tetrahedron (2000), 56(37), 7187-7191
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:362451

IT **54464-98-1P 307494-20-8P 307494-21-9P 307494-22-0P 307494-23-1P 307494-24-2P 307494-25-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereoselective cyclopropanation of alkenes with diazoacetate catalyzed by copper-chiral Schiff-base complexes)

RN 54464-98-1 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1S)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

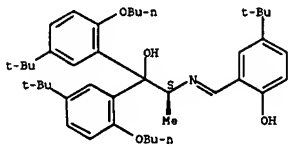
Absolute stereochemistry.
Double bond geometry unknown.





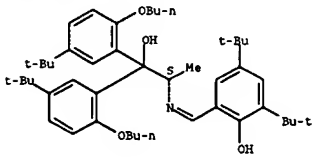
RN 307494-20-8 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1S)-1-[[[5-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



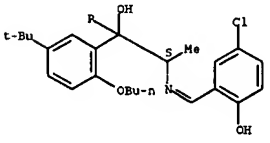
RN 307494-21-9 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]ethyl]-2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

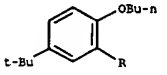
Absolute stereochemistry.
Double bond geometry unknown.



RN 307494-22-0 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-α-[(1S)-1-[[(5-chloro-2-hydroxyphenyl)methylene]amino]ethyl]-5-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

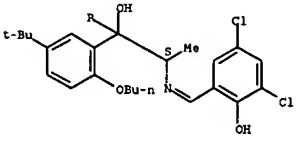
Absolute stereochemistry.
Double bond geometry unknown.

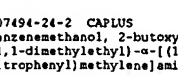




RN 307494-23-1 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-α-[(1S)-1-[[(3,5-dichloro-2-hydroxyphenyl)methylene]amino]ethyl]-5-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

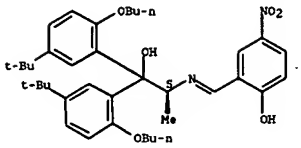




RN 307494-24-2 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1S)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

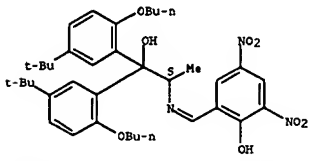
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 18 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 307494-25-3 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1S)-1-[[(2-hydroxy-3,5-dinitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

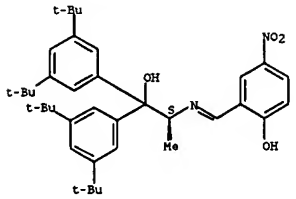
Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
AB A new copper-(Schiff base) complex, derived from (S)-2-amino-1,1-di(3,5-di-t-butylphenyl)propanol, 2-hydroxy-5-nitrobenzaldehyde, and copper acetate monohydrate, was used as an efficient catalyst for the cyclopropanation of styrene with diazoacetates, affording ees of up to 98%.
ACCESSION NUMBER: 2000:290427 CAPLUS
DOCUMENT NUMBER: 133:89233
TITLE: Highly efficient and enantioselective cyclopropanation of styrene with diazoacetates using a new copper-(Schiff base) catalyst
AUTHOR(S): Li, Zhengning; Zheng, Zhuo; Chen, Huilin
CORPORATE SOURCE: Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, 116023, Peop. Rep. China
SOURCE: Tetrahedron: Asymmetry (2000), 11(5), 1157-1163
CODEN: TASYE3; ISSN: 0957-4166
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:89233
IT 279689-09-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(enantioselective cyclopropanation of alkenes with diazoacetates catalyzed by copper-(Schiff base) complex)
RN 279689-09-7 CAPLUS
CN Benzenemethanol, α-[3,5-bis(1,1-dimethylethyl)phenyl]-3,5-bis(1,1-dimethylethyl)-α-[(1S)-1-[[(2-hydroxy-5-nitrophenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

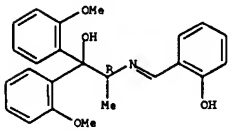
L4 ANSWER 20 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
AB The present invention provides an advantageous method for producing an optically active chrysanthemic acid. A method was developed for producing an optically active chrysanthemic acid whose trans isomer ratio and optical purity are improved, which comprises reacting chrysanthemic acid having a trans isomer ratio of not less than 50% and an optical purity of not less than 10% e.e. with an optically active organic amine to optically resolve said chrysanthemic acid. Thus, to 20 g chrysanthemic acid having an optical purity of 72% e.e. with respect to trans isomer and 52% e.e. with respect to cis isomer (trans/cis ratio: 78/22) in toluene was added (S)-1-phenyl-2-(p-tolyl)ethylamine with heating, after cooling the crystal was collected by filtration, washed with toluene and then dissolved in aqueous
5% sodium hydroxide. The aqueous layer was acidified with aqueous 5% sulfuric
acid and extracted with toluene to give 14.3 g of chrysanthemic having a trans/cis ratio of 81/19 and optical purity of the (+)-trans isomer was 98% e.e. and of (+)-cis isomer was 98% e.e. (yield 71.58%).
ACCESSION NUMBER: 1999:505786 CAPLUS
DOCUMENT NUMBER: 131:144729
TITLE: Method for producing optically active chrysanthemic acid
INVENTOR(S): Itagaki, Makoto; Suzukamo, Gohfu; Sasaki, Kazuaki; Fujita, Kunihiko
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 933349	A1	19990804	EP 1999-101475	19990127
EP 933349	B1	20030409		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6268525	B1	20010731	US 1999-238503	19990127
IN 188599	A	20021019	IN 1999-MA105	19990128
JP 11279111	A2	19991012	JP 1999-22348	19990129
CN 1232017	A	19991020	CN 1999-102762	19990129
PRIORITY APPLN. INFO.:			JP 1998-16787 A	19980129

OTHER SOURCE(S): MARPAT 131:144729
IT 235415-80-2 235415-81-3 235415-82-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(method for producing optically active chrysanthemic acid)
RN 235415-80-2 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

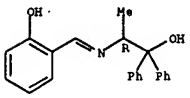
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 20 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



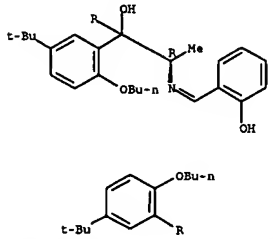
RN 235415-81-3 CAPLUS
CN Benzenemethanol, α-[(1R)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 235415-82-4 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1R)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 21 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

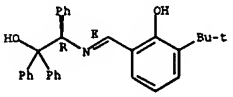
AB The novel chiral amino alcs. (R)- and (S)-HOCHPhCPh2NH2 are prepared from (R)- and (S)-HOCHPhCPh2OH, resp. Alkoxytitanium complexes of 2-hydroxybenzylidene-imines derived from HOCHPhCPh2NH2 catalyze the addition of Et2Zn to PhCHO with ≤92% ee.

ACCESSION NUMBER: 1999:8309 CAPLUS
DOCUMENT NUMBER: 130:153432
TITLE: 2-Amino-1,2,2-triphenylethanol. A novel chiral reagent containing the diphenylaminomethyl group. Enantioselective addition of diethylzinc to benzaldehyde
AUTHOR(S): Fleischer, Ralf; Braun, Manfred
CORPORATE SOURCE: Institut Organische Makromolekulare Chemie, Universitaet Duesseldorf, Duesseldorf, D-40225, Germany
SOURCE: Synlett (1998), (12), 1441-1443
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 130:153432

IT 210582-36-8 210582-38-0
RL: CAT (Catalyst use); USES (Uses)
(asym. addition of ethylzinc to benzaldehyde catalyzed by chiral alkoxytitanium imine complex)

RN 210582-36-8 CAPLUS
CN Benzeneethanol, β-[(E)-[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-α,α-diphenyl-, (βR)- (9CI) (CA INDEX NAME)

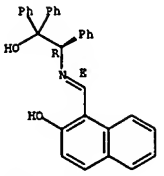
Absolute stereochemistry.
Double bond geometry as shown.



RN 210582-38-0 CAPLUS
CN 2-Naphthalenol, 1-[(E)-[[(1R)-2-hydroxy-1,2,2-triphenylethyl]imino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

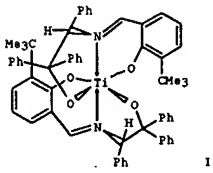
L4 ANSWER 21 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 22 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

GI



I

AB Imines containing a diphenylcarbinol moiety serve as chiral ligands in novel enantiomerically pure imine-alkoxytitanium(IV) complexes. Depending on the molar ratio of the starting materials, imines and Ti tetraisopropoxide, mono-chelated complexes or bis-chelated complexes result. The latter are formed diastereoselectively and the bis-chelated isomers are main or exclusive products. Their (A) configuration is determined by a crystal-structure anal. of I (monoclinic, space group P21, a = 1316.7(4), b = 1863.0(4), c = 1358.1(3) pm, β = 115.78(4)°, V = 2.9999(13) nm3, Z = 2, ρc = 1.308 g/cm3, F(000) = 1228, μ(MoKα) = 0.46 mm-1, 3510 observed reflections with I > 2σ(I), 751 refined parameters, R1 = 0.055, wR2 = 0.128). The bis-ligand complexes or mixts. of bis-chelated complexes which are found to be remarkably stable, are used as precursors not only for the reactive dihalo complexes but also for the preparation of the mixed chloroisopropoxytitanium complex.

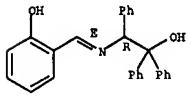
ACCESSION NUMBER: 1998:379372 CAPLUS
DOCUMENT NUMBER: 129:156124
TITLE: Synthesis and structure determination of novel chiral imine-alkoxytitanium complexes
AUTHOR(S): Fleischer, Ralf; Wunderlich, Hartmut; Braun, Manfred
CORPORATE SOURCE: Institut Organische Chemie Makromolekulare Chemie, Universitaet Duesseldorf, Duesseldorf, D-40225, Germany
SOURCE: European Journal of Organic Chemistry (1998), (6), 1063-1070
CODEN: EJOCFK; ISSN: 1434-193X
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 210582-35-7P 210582-36-8P 210582-37-9P 210582-38-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(for preparation of novel chiral imine-alkoxytitanium complexes)

RN 210582-35-7 CAPLUS
CN Benzeneethanol, β-[(E)-[(2-hydroxyphenyl)methylene]amino]-α,α-diphenyl-, (βR)- (9CI) (CA INDEX NAME)

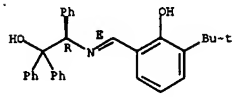
L4 ANSWER 22 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.
Double bond geometry as shown.



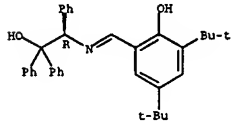
RN 210582-36-8 CAPLUS
CN Benzeneethanol, β-[(E)-[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-α,α-diphenyl-, (βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 210582-37-9 CAPLUS
CN Benzeneethanol, β-[[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-α,α-diphenyl-, (βR)- (9CI) (CA INDEX NAME)

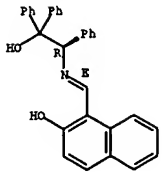
Absolute stereochemistry.
Double bond geometry unknown.



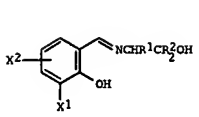
RN 210582-38-0 CAPLUS
CN 2-Naphthalenol, 1-[(E)-[[(1R)-2-hydroxy-1,2,2-triphenylethyl]imino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L4 ANSWER 22 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 23 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



I III

AB The title compds. I [X1 = Me2CH, EtCHMe, Me3C; X 2 = H, halo, C1-10 alkoxy, C1-4 alkyl; R1 = (C1-10 alkoxy- or C1-4 alkylthio-substituted) C1-6 alkyl,, (C1-10 alkoxy-substituted aromatic ring-containing) C7-11 aralkyl, (C1-10 alkoxy-substituted) Ph; R2 = (c1-10 alkoxy- or C1-4 alkyl-substituted) Ph] are prepared by treating optically active HZNCHR1CR22OH with salicylaldehydes III. Refluxing a mixture of 2-(S)-amino-1,1-di-(5-tert-butyl-2-methoxyphenyl)-3-phenyl-1-propanol and 3-tert-butyl-5-methylsalicylaldehyde in EtOH for 1 h gave 77% (+)-(S)-N-(3-tert-butyl-5-methyl)salicylidene-2-amino-1,1-di-(5-tert-butyl-2-methoxyphenyl)-3-phenyl-1-propanol.

ACCESSION NUMBER: 1996:664127 CAPLUS
DOCUMENT NUMBER: 125:300604
TITLE: Preparation of optically active salicylidene Schiff bases as asymmetric oxidation catalysts
INVENTOR(S): Yanagawa, Masao; Oda, Yoshiaki
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08217735	A2	19960827	JP 1995-28294	19950216

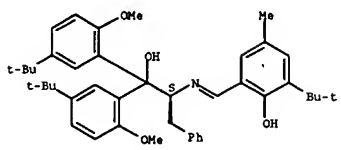
PRIORITY APPLN. INFO.: JP 1995-28294 19950216
OTHER SOURCE(S): MARPAT 125:300604

IT **182916-06-9P 182916-07-0P 182916-08-1P 182916-09-2P 182916-10-5P 182916-11-6P 182916-13-8P**
RL: CAT (Catalyst use); IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation of optically active salicylidene Schiff bases as asym. oxidation catalysts from salicylaldehydes and aminoalcs.)

RN 182916-06-9 CAPLUS
CN Benzenepropanol, β-[[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]methylene]amino]-α,α-bis[5-(1,1-dimethylethyl)-2-methoxyphenyl]-, (S)- (9CI) (CA INDEX NAME)

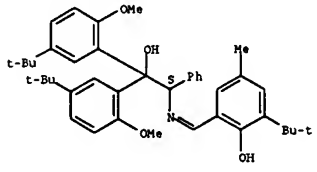
Absolute stereochemistry. Rotation (+).

L4 ANSWER 23 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Double bond geometry unknown.



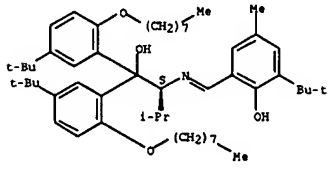
RN 182916-07-0 CAPLUS
CN Benzeneethanol, β-[[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]methylene]amino]-α,α-bis[5-(1,1-dimethylethyl)-2-methoxyphenyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry unknown.



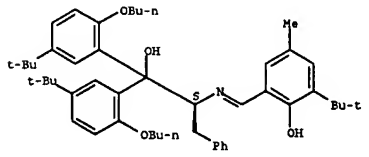
RN 182916-08-1 CAPLUS
CN Benzenemethanol, 5-(1,1-dimethylethyl)-α-[1-[[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]methylene]amino]-2-methylpropyl]-α-[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-2-(octyloxy)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry unknown.



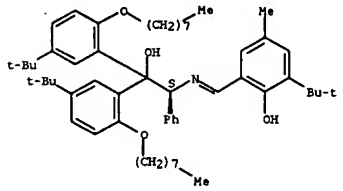
L4 ANSWER 23 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RN 182916-09-2 CAPLUS
CN Benzenepropanol, α,α-bis[2-butoxy-5-(1,1-dimethylethyl)phenyl]-β-[[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]methylene]amino]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry unknown.



RN 182916-10-5 CAPLUS
CN Benzeneethanol, β-[[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]methylene]amino]-α,α-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-, (S)- (9CI) (CA INDEX NAME)

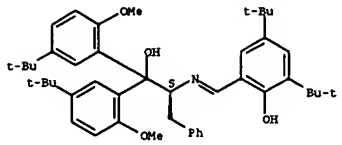
Absolute stereochemistry. Rotation (+).
Double bond geometry unknown.



RN 182916-11-6 CAPLUS
CN Benzenepropanol, β-[[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-α,α-bis[5-(1,1-dimethylethyl)-2-methoxyphenyl]-, (S)- (9CI) (CA INDEX NAME)

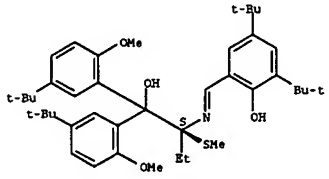
Absolute stereochemistry. Rotation (+).
Double bond geometry unknown.

L4 ANSWER 23 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



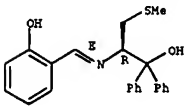
RN 182916-13-8 CAPLUS
CN Benzenemethanol, α-[1-[[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-1-(methylthio)propyl]-5-(1,1-dimethylethyl)-α-[5-(1,1-dimethylethyl)-2-methoxyphenyl]-2-methoxy-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry unknown.



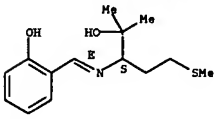
L4 ANSWER 24 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
AB Several bis-copper(II) complexes with chiral ligands derived from 2-substituted 2-(salicylideneamino)ethanols were tested as catalysts of enantioselective Michael reactions. The degree of stereoselection is strongly affected by the architecture of the ligand. The best result (75% enantiomeric excess) was obtained for a ligand having a substituent potentially suitable to induce the formation of a bis-tetradentate copper(II) complex with a square pyramidal coordination.
ACCESSION NUMBER: 1995:505366 CAPLUS
DOCUMENT NUMBER: 123:227755
TITLE: Copper(II) in organic synthesis. XI. Evaluation of the ligand architecture on the efficiency of a copper(II) catalyst for enantioselective Michael reactions
AUTHOR(S): Desimoni, Giovanni; Dusi, Guglielmo; Faita, Giuseppe; Quadrelli, Paolo; Righetti, PierPaolo
CORPORATE SOURCE: Dipartimento Chimica Organica, Universita Pavia, Pavia, I-27100, Italy
SOURCE: Tetrahedron (1995), 51(14), 4131-44
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 168648-52-0P 168648-56-4P 168648-57-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(copper(II)-catalyzed stereoselective Michael reactions)
RN 168648-52-0 CAPLUS
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]-2-(methylthio)ethyl]-α-phenyl-, [R-(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 168648-56-4 CAPLUS
CN Phenol, 2-[[[2-hydroxy-2-methyl-1-[2-(methylthio)ethyl]propyl]imino]methyl]-, [S-(E)]- (9CI) (CA INDEX NAME)

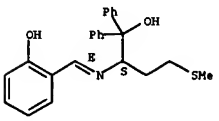
Absolute stereochemistry.
Double bond geometry as shown.



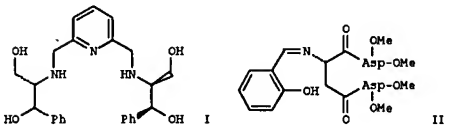
RN 168648-57-5 CAPLUS

L4 ANSWER 24 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]-3-(methylthio)propyl]-α-phenyl-, [S-(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



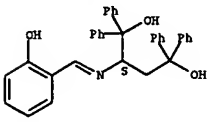
L4 ANSWER 25 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Chiral dendrimeric ligands, e.g., I and II, were synthesized for use as cocatalysts. Similarly, 8 was synthesized from 2,6-pyridinedicarboxaldehyde (7). By acylation of the hydroxy and amino groups, compound 4 was expanded to the corresponding ester amides 5 and 6. Boc and cbz protection of the amino group of 2 produced 10 and 19, resp. The hydroxy groups of 10 were esterified with 4-(chloromethyl)-benzoyl chloride (11) and 3,5-bis(chloromethyl)benzoyl chloride (12) to give 13 and 14. Compound 19 was converted to the diester 21 by treatment with 3,5-dimethylbenzoyl chloride (20). Substitution of the chloro substituent in 13 and 14 by (1R,2S)-ephedrine (1S,2S)-2-(benzylamino)-1-phenyl-1,3-propanediol, resp., lead to the tertiary amines 15a-17a. After removal of the N-protection, the primary amino groups of 17b-22 were treated with the aldehydes 1, 7, 27, and 35 to give the corresponding aldimine chelate ligands 23-26, 28-34, and 36. Starting with L-N-boc-aspartic acid (37) the tripeptide 39 was formed with two equivalent of L-aspartic acid di-Me ester hydrochloride (38). After removal of the boc group followed by condensation with salicylaldehyde, imine 40 was generated, (S)-2-amino-1,1,4,4-tetraphenyl-1,4-butanediol (41), derived from L-aspartic acid, was treated with the aldehydes 27 and 35. The resulting products 42 and 43 in solution formed mixts. of the diastereomeric oxazolidines 42a and 43a as well as the oxazinanes 42b and 43b. The ligands have been tested in the Cu(I)-catalyzed cyclopropanation of styrene with Et diazoacetate.
ACCESSION NUMBER: 1995:182169 CAPLUS
DOCUMENT NUMBER: 123:313076
TITLE: Enantioselective catalysis. 90. Optically active nitrogen ligands with dendrimeric structure
AUTHOR(S): Brunner, Henri; Altmann, Stefan
CORPORATE SOURCE: Inst. Anorg. Chem., Univ. Regensburg, Regensburg, D-93053, Germany
SOURCE: Chemische Berichte (1994), 127(11), 2285-96
CODEN: CHBEAM; ISSN: 0009-2940
PUBLISHER: VCH
DOCUMENT TYPE: Journal
LANGUAGE: German
IT 167082-80-6P 167082-81-7P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation of optically active nitrogen ligands with dendrimeric structure
for enantioselective catalysis)
RN 167082-80-6 CAPLUS

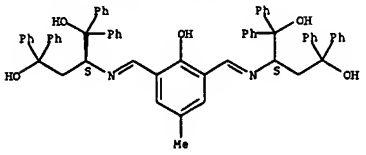
L4 ANSWER 25 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
CN 1,4-Butanediol, 2-[[(2-hydroxyphenyl)methylene]amino]-1,1,4,4-tetraphenyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



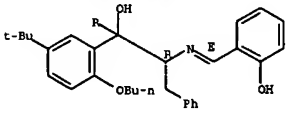
RN 167082-81-7 CAPLUS
CN 1,4-Butanediol, 2,2'-[(2-hydroxy-5-methyl-1,3-phenylene)bis(methylidynenitrilo)]bis[1,1,4,4-tetraphenyl-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

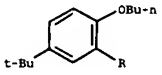
Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 26 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
AB The direct enantiomer separation of amines and carboxylic acids by HPLC with copper(II) complexes of chiral ligands as stationary phases was investigated. Various racemic amines, carboxylic acids and their related compds. were well resolved using water or hydro-organic eluents including copper(II) ion. It was suggested the amino or carboxylic acid group attached to the asym. carbon atom may play main role and some other polar functional groups may play complementary role in the complexation with stationary phases for chiral discrimination. These chiral copper(II) complexes are very promising as stationary phases for the direct separation of
a wide range of racemic compds. containing amino or carboxylic acid group.
ACCESSION NUMBER: 1994:594583 CAPLUS
DOCUMENT NUMBER: 121:194583
TITLE: Enantiomer separation of amines and carboxylic acids by HPLC with chiral copper(II) complexes as stationary phases
AUTHOR(S): Oi, Naobumi; Kitahara, Hajimu; Aoki, Fumiko
CORPORATE SOURCE: Sumika Chem. Anal. Serv. Ltd., Japan
SOURCE: Kuromatogurafi (1993), 14(5), 88-9
CODEN: KUROE9; ISSN: 0917-3048
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
IT 157543-52-7D, copper complexes, silica supported
RL: ANST (Analytical study)
(as chiral stationary phases for amines and carboxylic acids separation by HPLC)
RN 157543-52-7 CAPLUS
CN Benzenepropanol, α,α-bis[2-butoxy-5-(1,1-dimethylethyl)phenyl]-β-[[(2-hydroxyphenyl)methylene]amino]-, [R-(E)]- (9CI) (CA INDEX NAME)

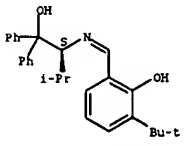
Absolute stereochemistry.
Double bond geometry as shown.





L4 ANSWER 27 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
AB The enantioselective addition of trimethylsilyl cyanide to a variety of aldehydes proceeded by the aid of a catalyst prepared in situ from titanium tetraisopropoxide and chiral Schiff bases and gave the corresponding cyanohydrins in high optical yield (up to 96% e.e.). A remarkable rate enhancement was brought about by the addition of the Schiff base to the titanium alkoxide mediated silylcyanation of aldehydes. This catalyst system also promoted the highly enantioselective reaction of diketene with aldehydes, which led to the formation of optically active 5-hydroxy-3-oxo esters.
ACCESSION NUMBER: 1994:482105 CAPLUS
DOCUMENT NUMBER: 121:82105
TITLE: Asymmetric carbon-carbon bond forming reactions catalyzed by chiral Schiff base-titanium alkoxide complexes
AUTHOR(S): Hayashi, Masahiko; Inoue, Tetsuya; Miyamoto, Yasunori; Oguni, Nobuki
CORPORATE SOURCE: Fac. Sci., Yamaguchi Univ., Yamaguchi, 753, Japan
SOURCE: Tetrahedron (1994), 50(15), 4385-98
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 121:82105
IT 139224-70-7P 147600-16-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and catalysis by titanium isopropoxide and, of silyl cyanation of aldehydes)
RN 139224-70-7 CAPLUS
CN Benzenemethanol, α-[1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-2-methylpropyl]-α-phenyl-, (S)- (9CI) (CA INDEX NAME)

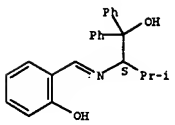
Absolute stereochemistry.
Double bond geometry unknown.



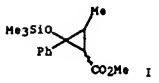
RN 147600-16-6 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[(2-hydroxyphenyl)methylene]amino]-2-methylpropyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 27 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 28 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



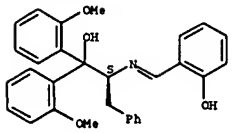
I

AB The cyclopropanation of silyl enol ether Me3SiOC(Ph):CHMe 1a with N2 diazoacetate (2a) and diazo esters in the presence of optically active copper salicylimine complexes was systematically studied. Up to 88% enantiomeric excess in products 3 were obtained by employing the appropriate reaction conditions and the optimal catalyst ligands. Thus, for the first time respectable optical yields were achieved in asym. cyclopropanations of silyl enol ethers with easily available copper-Schiff base catalysts. The ring opening of the separated diastereomers of 3a (shown as I) employing Bu4NF provided Me γ-oxo-carboxylate PhCOCHMeCH2CO2Me 6a in good optical purity. This demonstrates that this process occurs without racemization and also that 3a is formed with the same absolute configuration at C-1.

ACCESSION NUMBER: 1994:298674 CAPLUS
DOCUMENT NUMBER: 120:298674
TITLE: Synthesis of optically active siloxycyclopropanes by asymmetric catalysis. I. Influence of the catalyst on the cyclopropanation of (Z)-1-phenyl-1-(trimethylsiloxy)prop-1-ene
AUTHOR(S): Dammast, Franziska; Reissig, Hans Ulrich
CORPORATE SOURCE: Inst. Org. Chem., Tech. Hochsch. Darmstadt, Darmstadt, D-64287, Germany
SOURCE: Chemische Berichte (1993), 126(11), 2449-56
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 120:298674
IT **54464-82-3P 78679-29-5P 154721-39-8P**
154721-40-1P 154721-41-2P 154755-56-3P
154802-38-7P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and coordination of, with copper, as cyclopropanation catalyst)
RN 54464-82-3 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-bis(2-methoxyphenyl)-, (S)- (9CI) (CA INDEX NAME)

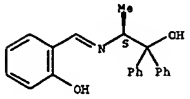
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 28 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



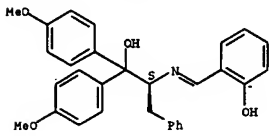
RN 78679-29-5 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 154721-39-8 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-bis(4-methoxyphenyl)-, (S)- (9CI) (CA INDEX NAME)

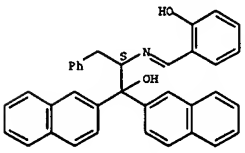
Absolute stereochemistry.
Double bond geometry unknown.



RN 154721-40-1 CAPLUS
CN 2-Naphthalenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]-2-phenylethyl]-α-2-naphthalenyl-, (S)- (9CI) (CA INDEX NAME)

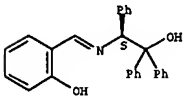
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 28 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



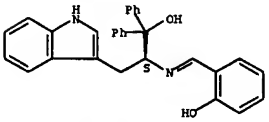
RN 154721-41-2 CAPLUS
CN Benzeneethanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-diphenyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 154755-56-3 CAPLUS
CN 1H-Indole-3-propanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-diphenyl-, (S)- (9CI) (CA INDEX NAME)

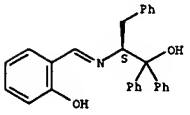
Absolute stereochemistry.
Double bond geometry unknown.



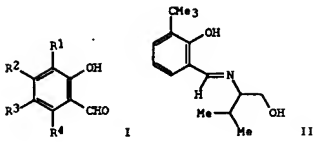
RN 154802-38-7 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-diphenyl-, (βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 28 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 29 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Optically active cyanohydrins, useful as intermediates for α-oxo acids, α-amino acids, β-amino alcs., and pyrethroids and materials for liquid crystals, are prepared by treatment of aldehydes with cyanation agents in presence of catalysts comprising Ti complexes of Schiff bases prepared from hydroxybenzaldehydes I (R1-4 = H, OH, alkyl, alkoxy, aralkyl, aryl, halo; R1R2, R2R3, and R3R4 may form aromatic ring) and optically active β-amino alcs. Schiff base (S)-II was treated with (Me2CHO)4Ti in CH2Cl2 at room temperature for 1 h, butyraldehyde and Me3SiCN were added and the mixture was stirred at -80° for 12 h to give 73% (R)-2-hydroxypentanenitrile.

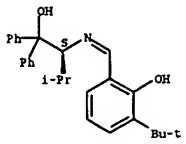
ACCESSION NUMBER: 1993:603017 CAPLUS
DOCUMENT NUMBER: 119:203017
TITLE: Preparation of optically active cyanohydrins
INVENTOR(S): Kokuni, Nobuki; Hayashi, Masahiko; Myamoto, Yasunori
PATENT ASSIGNEE(S): Kanegafuchi Chemical Ind, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05112518	A2	19930507	JP 1992-51781	19920310
PRIORITY APPLN. INFO.:			JP 1991-220238 A1	19910830

OTHER SOURCE(S): CASREACT 119:203017; MARPAT 119:203017
IT 139224-70-7D, titanium complexes 150459-82-8D, titanium complexes
RL: CAT (Catalyst use); USES (Uses)
(catalyst, for cyanation of aldehydes)
RN 139224-70-7 CAPLUS
CN Benzenemethanol, α-[1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-2-methylpropyl]-α-phenyl-, (S)- (9CI) (CA INDEX NAME)

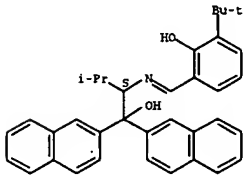
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 29 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

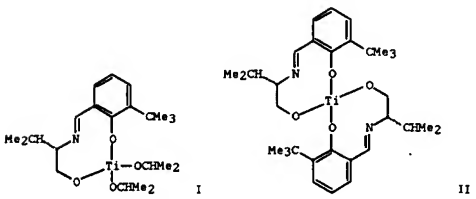


RN 150459-82-8 CAPLUS
CN 2-Naphthalenemethanol, α-[1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-2-methylpropyl]-α-2-naphthalenyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI

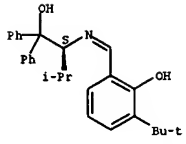


AB A variety of aldehydes (aromatic, heteroarom., α,β-unsatd., and nonconjugate aliphatic aldehydes) has been trimethylsilylcyanated in highly enantiomeric excess (ee) with a catalyst prepared in situ from titanium tetraisopropoxide [Ti(O-i-Pr)4] and chiral Schiff bases. A remarkable rate enhancement was brought about by the addition of the Schiff base into the titanium alkoxide mediated silylcyanation of aldehydes. The chemical structure of chiral Schiff base-titanium alkoxide complexes I and II is discussed based on their 13C-NMR spectra, field desorption (FD) mass spectra, and mol. wts.

ACCESSION NUMBER: 1993:254478 CAPLUS
DOCUMENT NUMBER: 118:254478
TITLE: Enantioselective trimethylsilylcyanation of some aldehydes catalyzed by chiral Schiff base-titanium alkoxide complexes
AUTHOR(S): Hayashi, Masahiko; Miyamoto, Yasunori; Inoue, Tetsuya; Oguni, Nobuki
CORPORATE SOURCE: Fac. Sci., Yamaguchi Univ., Yamaguchi, 753, Japan
SOURCE: Journal of Organic Chemistry (1993), 58(6), 1515-22
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 118:254478
IT 139224-70-7P 147600-16-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as ligand for titanium cyanosilylation catalysts)
RN 139224-70-7 CAPLUS
CN Benzenemethanol, α-[1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-2-methylpropyl]-α-phenyl-, (S)- (9CI) (CA INDEX NAME)

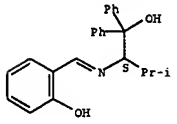
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 147600-16-6 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[(2-hydroxyphenyl)methylene]amino]-2-methylpropyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

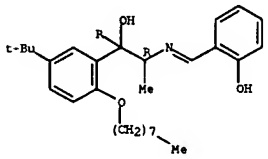
AB Starting from 2,2'-dihydroxy-1,1'-binaphthyl-3,3'-dicarboxylic acid, the optically active aldehyde 2,2'-dihydroxy-3-formyl-3'-hydroxymethyl-1,1'-binaphthyl was obtained in 52% yield. Seven optically active Schiff bases were synthesized by reaction of different binaphthylcarbaldehydes with (2R)-(-)-2-amino-1,1'-bis(5-tert-butyl-2-n-octyloxyphenyl)propan-1-ol or ethylenediamine, which served as cocatalysts in the Cu-catalyzed enantioselective cyclopropanation of styrene with Et and menthyl diazoacetate. Optical inductions of up to 79% ee were achieved.

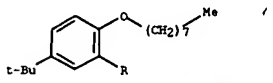
ACCESSION NUMBER: 1992:407532 CAPLUS
DOCUMENT NUMBER: 117:7532
TITLE: Enantioselective catalysis. 57. Optically active binaphthyl derivatives in the copper-catalyzed enantioselective cyclopropanation
AUTHOR(S): Brunner, H.; Wutz, K.
CORPORATE SOURCE: Inst. Anorg. Chem., Univ. Regensburg, Regensburg, D-8400, Germany
SOURCE: New Journal of Chemistry (1992), 16(1-2), 57-61
CODEN: NJCHE5; ISSN: 0398-9836
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 117:7532

IT 78679-28-4
RL: CAT (Catalyst use); USES (Uses)
(enantioselective catalysts, for cyclopropanation of styrene)

RN 78679-28-4 CAPLUS
CN Benzenemethanol, 5-(1,1-dimethylethyl)-α-[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-(octyloxy)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

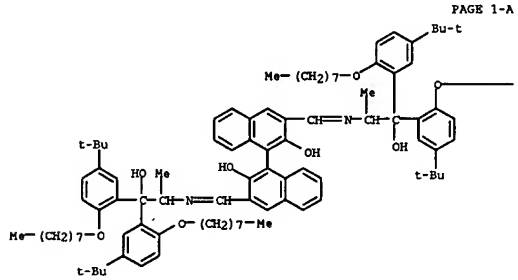




IT 141779-47-7P 141846-78-8P 141846-79-9P
141846-80-2P 141846-81-3P 141846-82-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, spectra and enantioselective catalytic activity, in cyclopropanation of styrene)

RN 141779-47-7 CAPLUS
CN [1,1'-Binaphthalene]-2,2'-diol, 3,3'-bis[[[2,2-bis[5-(1,1-dimethylethyl)-2-

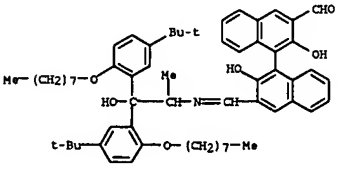
L4 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



PAGE 1-B

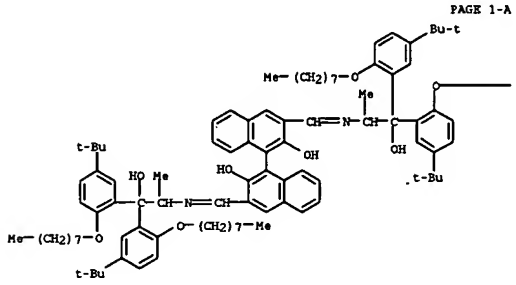
— $(CH_2)_7$—Me

RN 141846-79-9 CAPLUS
CN [1,1'-Binaphthalene]-3-carboxaldehyde, 3'-[[[2,2-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-2-hydroxy-1-methylethyl]imino]methyl]-2,2'-dihydroxy-, stereoisomer (9CI) (CA INDEX NAME)



RN 141846-80-2 CAPLUS
CN [1,1'-Binaphthalene]-3-carboxaldehyde, 3'-[[[2,2-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-2-hydroxy-1-methylethyl]imino]methyl]-2,2'-dihydroxy-, stereoisomer (9CI) (CA INDEX NAME)

L4 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(octyloxy)phenyl]-2-hydroxy-1-methylethyl]imino]methyl]-, stereoisomer (9CI) (CA INDEX NAME)

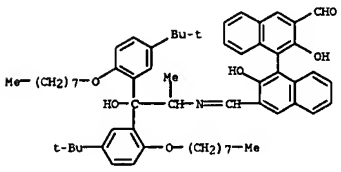


PAGE 1-B

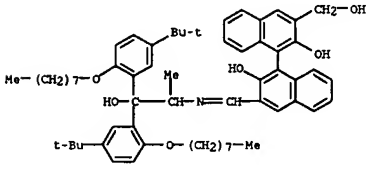
— $(CH_2)_7$—Me

RN 141846-78-8 CAPLUS
CN [1,1'-Binaphthalene]-2,2'-diol, 3,3'-bis[[[2,2-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-2-hydroxy-1-methylethyl]imino]methyl]-, stereoisomer (9CI) (CA INDEX NAME)

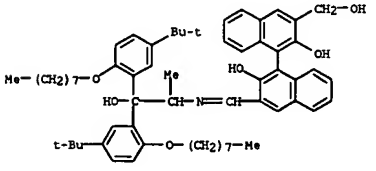
L4 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



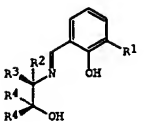
RN 141846-81-3 CAPLUS
CN [1,1'-Binaphthalene]-2,2'-diol, 3-[[[2,2-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-2-hydroxy-1-methylethyl]imino]methyl]-3'-(hydroxymethyl)-, stereoisomer (9CI) (CA INDEX NAME)



RN 141846-82-4 CAPLUS
CN [1,1'-Binaphthalene]-2,2'-diol, 3-[[[2,2-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-2-hydroxy-1-methylethyl]imino]methyl]-3'-(hydroxymethyl)-, stereoisomer (9CI) (CA INDEX NAME)



L4 ANSWER 32 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



I

AB The complexes formed between titanium tetraalkoxide and chiral Schiff's bases make excellent catalysts for enantioselective trimethylsilylcyanation of aldehydes to optically active cyanohydrins in high optical yield. Thus, the cocatalysts Schiff's bases I (R1 = H, R2 = CHMe2, R3 = R4 = H; R1 = CMe3, R2 = CHMe2, CH2CHMe2, R3 = R4 = H; R2 = CHMe2, R3 = H, R4 = Ph), prepared by condensation of salicylaldehyde with β-amino alcs., in the presence of Ti(OCHMe2)4 catalyzed the reaction of PhCHO with Me3SiCN to give PhCH(OSiMe3)CN in high optical yields.

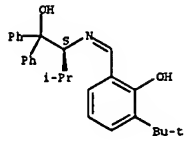
ACCESSION NUMBER: 1992:128322 CAPLUS
DOCUMENT NUMBER: 116:128322
TITLE: Enantioselective trimethylsilylcyanation of some aldehydes by chiral titanium Schiff's base complexes
AUTHOR(S): Hayashi, Masahiko; Miyamoto, Yasunori; Inoue, Tetsuya; Oguni, Nobuki
CORPORATE SOURCE: Fac. Sci., Yamaguchi Univ., Yamaguchi, 753, Japan
SOURCE: Journal of the Chemical Society, Chemical Communications (1991), (24), 1752-3
CODEN: JCCCAT; ISSN: 0022-4936
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:128322

IT 139224-70-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation as cocatalysts, for titanium tetraisopropoxide catalyzed enantioselective silylcyanation of aldehydes)

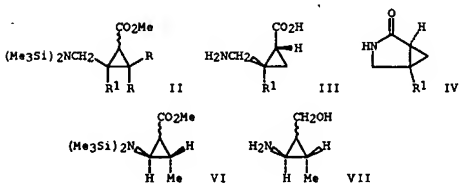
RN 139224-70-7 CAPLUS
CN Benzenemethanol, α-[1-[[[3-(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]-2-methylpropyl]-α-phenyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 32 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 33 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



II III IV

VI VII

AB N-Silylated allylamines R2C:CR1CH2N(SiMe3)2 (I; R = H, R1 = H, Me; R = Me, R1 = H) are effectively transformed into Me cyclopropanecarboxylates II by Me diazoacetate under Rh2(OAc)4 catalysis. Derivs. II (R = H) are smoothly converted into trans substituted amino acids III and to bicyclic γ-lactams IV. Thus, the pharmacol. interesting γ-aminobutyric acid (GABA) analog III (R1 = H) is now available in few steps. Photochem. and thermal Fe(CO)5-induced hydrogen shift converts allylamine derivs. I (R = H) into N-silylated enamines MeCR1:CHN(SiMe3)2 (V). While enamine (E)-V (R1 = H) be cyclopropanated with Me diazoacetate under Cu catalysis to afford the desired cyclopropane derivs. VI in good yield, the other enamines are rather unreactive towards the carbenoid. Use of an optically active catalyst provides VI with an enantiomeric excess of 56% (cis) and 20% (trans). Acid-induced ring cleavage of VI gives the β-formyl ester OHCCHMeCH2CO2Me, and reduction of VI followed by desilylation provides the aminocyclopropane VII in good overall yield, thus demonstrating that cyclopropanes like VI may serve as useful synthetic intermediates.

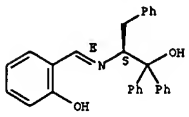
ACCESSION NUMBER: 1991:409263 CAPLUS
DOCUMENT NUMBER: 115:9263
TITLE: An efficient route to GABA-analogous amino acids: cyclopropanation of N-silylated allylamines and enamines
AUTHOR(S): Paulini, Klaus; Reissig, Hans Ulrich
CORPORATE SOURCE: Inst. Org. Chem., Tech. Hochsch. Darmstadt, Darmstadt, D-6100, Germany
SOURCE: Liebigs Annalen der Chemie (1991), (5), 455-61
CODEN: LACHDL; ISSN: 0170-2041
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 115:9263

IT 95241-31-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(catalyst with copper, for stereoselective cyclopropanation of enamine with diazoacetate)

RN 95241-31-9 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-diphenyl-, [S-(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 33 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Double bond geometry as shown.



L4 ANSWER 34 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

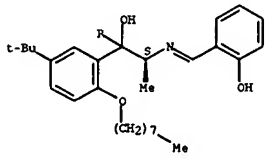
AB Enantioselective S-H bond insertion reaction of PhSH with RCOC(:N2)R (R = Me, Ph) in the presence of rhodium complex catalyst gave RCOCH(SPh)R, whereas intramol. C-H bond insertion reaction of Me(CH2)3COC(:N2)CO2Me in similar reaction conditions gave Me 3-methylcyclopentanone-2-carboxylate. Solvent effect and other catalyst systems [copper(II)-ligand] for both reactions were discussed. For the S-H insertion, optical inductions up to 13.8% enantiomeric excess and for the C-H insertion up to 14% enantiomeric excess were achieved.

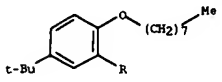
ACCESSION NUMBER: 1991:100661 CAPLUS
DOCUMENT NUMBER: 114:100661
TITLE: Enantioselective sulfur-hydrogen and carbon-hydrogen insertions with optically active rhodium(II) and copper(II) catalysts. Asymmetric catalysis. LVIII
AUTHOR(S): Brunner, Henri; Wutz, Konrad; Doyle, Michael P.
CORPORATE SOURCE: Inst. Anorg. Chem., Univ. Regensburg, Regensburg, D-8400, Germany
SOURCE: Monatshefte fuer Chemie (1990), 121(10), 755-64
CODEN: MOCMB7; ISSN: 0026-9247
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 114:100661

IT **57685-40-2 132187-12-3 132187-13-4 132187-14-5 132295-14-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(copper catalyzed insertion reaction of thiophenol with diazobutanones in presence of, enantioselectivity of)

RN 57685-40-2 CAPLUS
CN Benzenemethanol, 5-(1,1-dimethylethyl)-α-[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-(octyloxy)-, (S)- (9CI) (CA INDEX NAME)

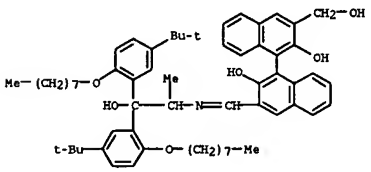
Absolute stereochemistry.
Double bond geometry unknown.



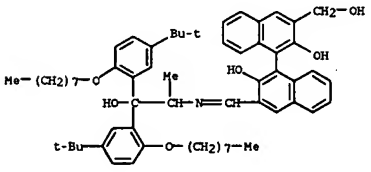


RN 132187-12-3 CAPLUS
CN [1,1'-Binaphthalene]-2,2'-diol, 3,3'-bis[[[2,2-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-2-hydroxy-1-methylethyl]imino]methyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 34 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 132295-14-8 CAPLUS
CN [1,1'-Binaphthalene]-2,2'-diol, 3-[[[2,2-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-2-hydroxy-1-methylethyl]imino]methyl]-3'-(hydroxymethyl)-, stereoisomer (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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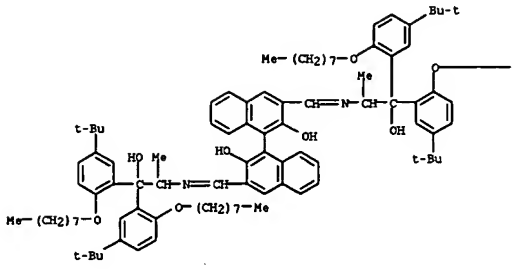
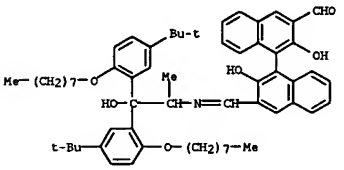


PAGE 1-B

— (CH2) 7—Me

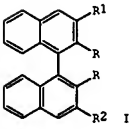
RN 132187-13-4 CAPLUS
CN [1,1'-Binaphthalene]-3-carboxaldehyde, 3'-[[[2,2-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-2-hydroxy-1-methylethyl]imino]methyl]-2,2'-dihydroxy-, stereoisomer (9CI) (CA INDEX NAME)



RN 132187-14-5 CAPLUS
CN [1,1'-Binaphthalene]-2,2'-diol, 3-[[[2,2-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-2-hydroxy-1-methylethyl]imino]methyl]-3'-(hydroxymethyl)-, stereoisomer (9CI) (CA INDEX NAME)

L4 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN

GI

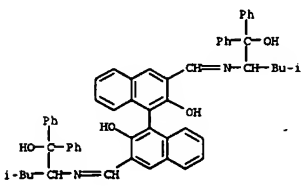


AB Optically active binaphthylcarboxaldehydes (R)-I (R = OH, R1 = CHO, R2 = CHO, CH2OH; R = CHO, R1 = R2 = H) were prepared from I (R = OH, R1 = R2 = CO2H; R = Me, R1 = R2 = H). Treatment of (R)-I with amines or amino alcs. gave the corresponding Schiff bases, which serve as cocatalysts in the copper-catalyzed enantioselective cyclopropanation of styrene with N2CHCO2Et (optical yields, ≤40%).

ACCESSION NUMBER: 1990:7138 CAPLUS
DOCUMENT NUMBER: 112:7138
TITLE: Asymmetric catalysis. IL. Optically active binaphthyl derivatives - synthesis and use in transition-metal catalysts
AUTHOR(S): Brunner, Henri; Goldbrunner, Johann
CORPORATE SOURCE: Inst. Anorg. Chem., Univ. Regensburg, Regensburg, D-8400, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1989), 122(10), 2005-9
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 112:7138

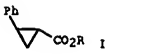
IT **121314-79-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as cocatalysts for enantioselective cyclopropanation of styrene)

RN 121314-79-2 CAPLUS
CN [1,1'-Binaphthalene]-2,2'-diol, 3,3'-bis[[[1-(hydroxydiphenylmethyl)-3-methylbutyl]imino]methyl]-, stereoisomer (9CI) (CA INDEX NAME)



L4 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

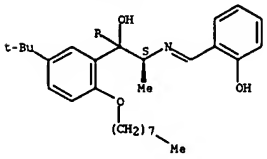
L4 ANSWER 36 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI

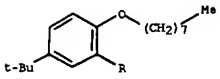


AB (-)-(1R,2R)-trans-Menthyl 2-phenylcyclopropanecarboxylate (I, R = menthyl) was synthesized with the aid of a chiral Cu(II) complex catalyst by the addition reaction of N2CHCO2R (R = menthyl) with PhCH:CH2. The yield was 80%, the purity of trans-compound over 90% and optical purity 75%.

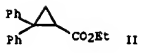
ACCESSION NUMBER: 1987:597552 CAPLUS
DOCUMENT NUMBER: 107:197552
TITLE: A highly asymmetric synthesis of 2-phenylcyclopropanecarboxylic acid through chiral copper(II) complex catalyzed carbenoid reaction
AUTHOR(S): Cho, Nam Sook; Shin, Dae Hyun; Lee, Chong Chul; Ra, Do Young
CORPORATE SOURCE: Coll. Sci., Chungnam Natl. Univ., Daejeon, S. Korea
SOURCE: Chungnam Kwahak Yonguchi (1985), 12(2), 131-40
CODEN: CJOSDA
DOCUMENT TYPE: Journal
LANGUAGE: Korean
IT 57685-40-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and complexation of, with cupric acetate, asym. cyclocondensation catalysts from)
RN 57685-40-2 CAPLUS
CN Benzenemethanol, 5-(1,1-dimethylethyl)-α-[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-(octyloxy)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.





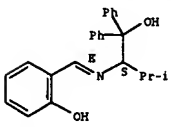
L4 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Cu(II) compds. catalyze the reaction of Ph2C:CH2 with N2CHCO2Et(I) to give, mainly, the (±)-Et cyclopropanecarboxylate (II). The formation of cis- and trans-EtO2CCH:CHCO2Et (the dimerization products of :CHCO2Et) is suppressed by the continuous addition of I to Ph2C:CH2. Thirty-seven optically active ligands, partly new, were combined with Cu(OAc)2 to give in-vitro catalysts; in 5 cases isolated Cu complexes were used. The best optical inductions in the formation of II, with ≤65.6% enantiomer excess, were achieved with amino alc. (from amino acid esters and PhMg halide) or salicylaldehyde derived Schiff bases.

ACCESSION NUMBER: 1985:148386 CAPLUS
DOCUMENT NUMBER: 102:148386
TITLE: Asymmetric catalyses. 21. Enantioselective cyclopropanation of 1,1-diphenylethylene and diazoacetic acid ester with copper catalysts
AUTHOR(S): Brunner, Henri; Miehling, Wolfgang
CORPORATE SOURCE: Inst. Anorg. Chem., Univ. Regensburg, Regensburg, D-8400, Fed. Rep. Ger.
SOURCE: Monatshefte fuer Chemie (1984), 115(10), 1237-54
CODEN: MOCMB7; ISSN: 0026-9247
DOCUMENT TYPE: Journal
LANGUAGE: German
IT 95241-30-8D, cupric acetate complex 95241-31-9D, cupric acetate complex 95241-32-0D, cupric acetate complex 95341-87-0D, cupric acetate complex
RL: CAT (Catalyst use); USES (Uses)
(catalyst, for cyclopropanation of diphenylethylene, asym. induction with)
RN 95241-30-8 CAPLUS
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]-2-methylpropyl]-α-phenyl-, [S-(E)]- (9CI) (CA INDEX NAME)

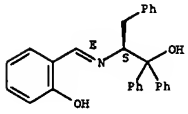
Absolute stereochemistry.
Double bond geometry as shown.



RN 95241-31-9 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-diphenyl-, [S-(E)]- (9CI) (CA INDEX NAME)

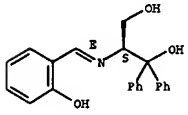
Absolute stereochemistry.
Double bond geometry as shown.

L4 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



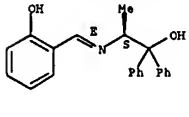
RN 95241-32-0 CAPLUS
CN 1,3-Propanediol, 2-[[(2-hydroxyphenyl)methylene]amino]-1,1-diphenyl-, [S-(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

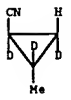


RN 95341-87-0 CAPLUS
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl-, [S-(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



L4 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



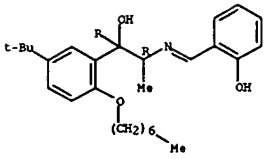
I

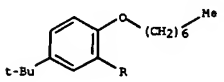
AB (+)-I was prepared in optically pure form. The kinetics of thermal stereomutations which interconvert (+)-I and 7 other isomeric cyclopropanes have been followed. While cyclopropanes 1,2-disubstituted with potent radical-stabilizing groups such as Ph, CN, and vinyl give stereomutation products via C(1)-C(2) bond cleavage only, the D-labeled 1-cyano-2-methylcyclopropane experience thermal stereomutations consistent with the intermediacy of two distinct trimethylene diradicals, one formed through cleavage of the C(1)-C(2) bond, the other by breaking C(1)-C(3).

ACCESSION NUMBER: 1982:103389 CAPLUS
DOCUMENT NUMBER: 96:103389
TITLE: Complete kinetic analysis of the thermal stereomutations of (+)-(1S,2S,3R)-r-1-cyano-t-2-methyl-1,2,t-3-trideuteriocyclopropane
AUTHOR(S): Baldwin, John E.; Carter, Charles G.
CORPORATE SOURCE: Dep. Chem., Univ. Oregon, Eugene, OR, 97403, USA
SOURCE: Journal of the American Chemical Society (1982), 104(5), 1362-8
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 80594-20-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion to copper complex)
RN 80594-20-3 CAPLUS
CN Benzenemethanol, 5-(1,1-dimethylethyl)-α-[5-(1,1-dimethylethyl)-2-(heptyloxy)phenyl]-2-(heptyloxy)-α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



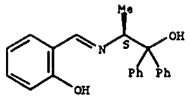


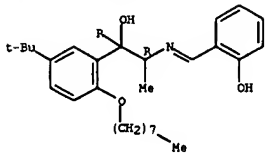
L4 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
AB Gas chromatog. separation of optically active amino alcs., amines, amino esters, and alcs. was achieved using optically active Cu(II) complexes. The binuclear Cu(II) complex of either (R)-2-(salicylidenamino)-1,1-bis(5-tert-butyl-2-octyloxyphenyl)propan-1-ol or (S)-2-(salicylidenamino)-1,1-diphenylpropan-1-ol was incorporated into the stationary phase on both capillary and packed columns. Separation results for 13 compds., using the carrier gas, are tabulated. Trimethylsilylation decreased the separation of amino alc. enantiomers, and acylation destroyed it entirely.

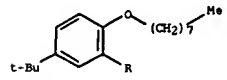
ACCESSION NUMBER: 1981:508111 CAPLUS
DOCUMENT NUMBER: 95:108111
TITLE: Gas chromatographic separation of some enantiomers on optically active copper(II) complexes
AUTHOR(S): Oi, Naobumi; Shiba, Kunio; Tani, Toru; Kitahara, Hajimu; Doi, Tadashi
CORPORATE SOURCE: Inst. Biol. Sci., Sumitomo Chem. Co., Ltd., Takarazuka, 665, Japan
SOURCE: Journal of Chromatography (1981), 211(2), 274-9
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 78679-28-4D, copper complex 78679-29-5D, copper complex
RL: ANST (Analytical study)
(in stationary phases for gas chromatog. separation of enantiomers)
RN 78679-28-4 CAPLUS
CN Benzenemethanol, 5-(1,1-dimethylethyl)-α-[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-(octyloxy)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



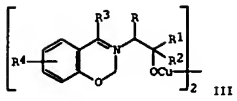




RN 78679-29-5 CAPLUS
CN Benzenemethanol, α-[(1S)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI



III

AB Optically active chrysanthemummonocarboxylates (I) were prepared by reaction of Me2CH:CHCH:CHMe2 (II) with diazoacetic esters in the presence of III (R = alkyl, aralkyl, aryl; R1, R2, R3 = H, alkyl, aralkyl, aryl, but R1≠R2; R4 = H, alkyl, aralkyl, aryl, or substituted hetero-atom). Thus, a mixture of II 80 and N2CHCO2Et 40 mmole was stirred with 0.4 mmole III (R = R1 = Ph, R2 = R3 = R4 = H, 1R, 2S, erythro) in 80 mmole II and PhMe at 40° to give I (as the Et ester, 63% from N2CHCO2Et, cis-I/trans-I ratio = 33.1/66.9), which was hydrolyzed to give the free acid. Prepns. of III were also described.

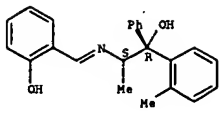
ACCESSION NUMBER: 1976:494542 CAPLUS
DOCUMENT NUMBER: 85:94542
TITLE: Asymmetric synthesis of chrysanthemum-monocarboxylate esters
INVENTOR(S): Nagase, Tsuneyuki; Aratani, Tadatoshi; Hazama, Motoo
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50137955	A2	19751101	JP 1974-45817	19740422
JP 52034616	B4	19770905		
PRIORITY APPLN. INFO.:			JP 1974-45817 A	19740422

IT 60123-18-4 60123-22-0 60123-23-1
60123-24-2 60123-25-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(copper complex from)
RN 60123-18-4 CAPLUS
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-methyl-α-phenyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

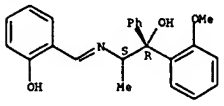
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



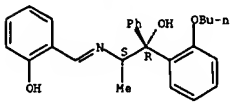
RN 60123-22-0 CAPLUS
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-phenyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



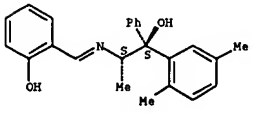
RN 60123-23-1 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 60123-24-2 CAPLUS
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2,5-dimethyl-α-phenyl-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

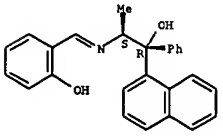
Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 60123-25-3 CAPLUS
CN 1-Naphthalenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-α-phenyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

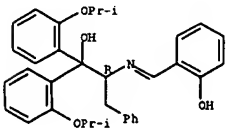
Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI For diagram(s), see printed CA Issue.
AB N2CHCO2Et in (Me2C:CH)2 decomposed in the presence of a Cu catalyst I to give an isomeric mixture of the title acid II (R = H). Thus (S)-I (R = R1 = Me, R2 = H), prepared by reaction of (S)-MeCH(NH2)CO2Et with the Grignard reagent derived from 2-MeOC6H4Br and reaction of the resulting alc. with 2-HOC6H4CHO and Cu(OAc)2, reacted with N2CHCO2Et in (Me2C:CH)2 to give 64% of a cis-trans mixture of the ester II (R = Et). Hydrolysis of this ester gave the title acid II (R = H). When the catalyst I had an (S) configuration, the acid II (R = H) was predominantly levorotatory; when the configuration was (R), dextrorotatory acid II (R = H) was formed predominantly. The optical activity of the acid II (R = H) increased with the bulkiness of the substituents R1 and R2 of I.

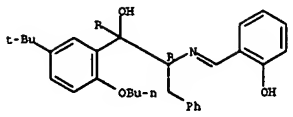
ACCESSION NUMBER: 1975:479389 CAPLUS
DOCUMENT NUMBER: 83:79389
TITLE: Asymmetric synthesis of chrysanthemic acid. Application of copper carbenoid reaction
AUTHOR(S): Aratani, T.; Yoneyoshi, Y.; Nagase, T.
CORPORATE SOURCE: Cent. Res. Lab., Sumitomo Chem. Co., Ltd., Osaka, Japan
SOURCE: Tetrahedron Letters (1975), (21), 1707-10
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 54464-80-1 54464-81-2 54464-96-9
54464-98-1 57685-40-2 57685-41-3
57685-42-4 57685-43-5 57685-44-6
57685-45-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with cupric acetate)
RN 54464-80-1 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-bis[2-(1-methylethoxy)phenyl]-, (R)- (9CI) (CA INDEX NAME)

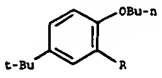
Absolute stereochemistry.
Double bond geometry unknown.



RN 54464-81-2 CAPLUS
CN Benzenepropanol, α,α-bis[2-butoxy-5-(1,1-dimethylethyl)phenyl]-β-[[(2-hydroxyphenyl)methylene]amino]-, (R)- (9CI) (CA INDEX NAME)

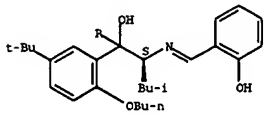
Absolute stereochemistry.
Double bond geometry unknown.

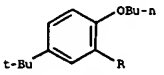




RN 54464-96-9 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[1-[[(2-hydroxyphenyl)methylene]amino]-3-methylbutyl]-, (S)- (9CI) (CA INDEX NAME)

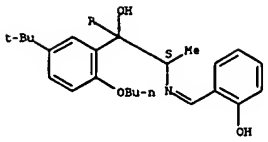
Absolute stereochemistry.
Double bond geometry unknown.

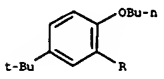




RN 54464-98-1 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1S)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

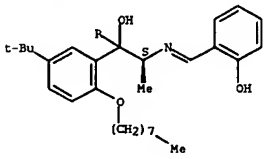
Absolute stereochemistry.
Double bond geometry unknown.

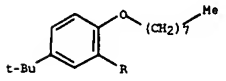




RN 57685-40-2 CAPLUS
CN Benzenemethanol, 5-(1,1-dimethylethyl)-α-[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-(octyloxy)-, (S)- (9CI) (CA INDEX NAME)

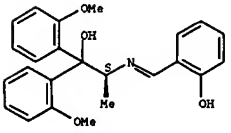
Absolute stereochemistry.
Double bond geometry unknown.





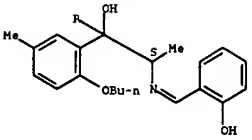
RN 57685-41-3 CAPLUS
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-2-methoxy-α-(2-methoxyphenyl)-, (S)- (9CI) (CA INDEX NAME)

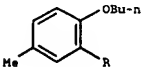
Absolute stereochemistry.
Double bond geometry unknown.



RN 57685-42-4 CAPLUS
CN Benzenemethanol, 2-butoxy-α-(2-butoxy-5-methylphenyl)-α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-5-methyl-, (S)- (9CI) (CA INDEX NAME)

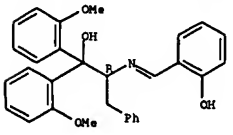
Absolute stereochemistry.
Double bond geometry unknown.





RN 57685-43-5 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-bis(2-methoxyphenyl)-, (R)- (9CI) (CA INDEX NAME)

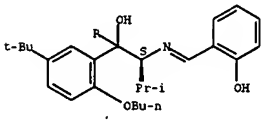
Absolute stereochemistry.
Double bond geometry unknown.

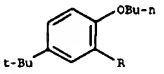


RN 57685-44-6 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-

(1,1-dimethylethyl)-α-[1-[[(2-hydroxyphenyl)methylene]amino]-2-methylpropyl]-, (S)- (9CI) (CA INDEX NAME)

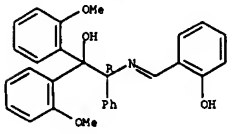
Absolute stereochemistry.
Double bond geometry unknown.





RN 57685-45-7 CAPLUS
CN Benzeneethanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-bis(2-methoxyphenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN
GI For diagram(s), see printed CA Issue.
AB Mixts. of Et cis- and trans-chrysanthemumate (I), from which chrysanthemumic acid was obtained by hydrolysis, were prepared by reaction of (Me2C:CH)2 with N2CHCO2Et in the presence of the Cu complexes II (Rn = H, 3,5-Br2, 3-EtO, or 5,6-benzo; R1 = Me, CHMe2, CH2CHMe2, CH2Ph, CH2C6H4OCHMe2-4, or cyclohexylmethyl; R2 = C1-8 alkyl, Ph, or CH2Ph; R3 = H, Me, CMe3, or OBu) and III (m = 2 or 3; R4 = CH2Ph or CH2CHMe2). II were prepared by reaction of salicylaldehydes with HZNCHR1C(OH)(C6H3(OR2)R3-2,5)2 to give the Schiff bases, which reacted with (AcO)2Cu.H2O. Three III were prepared by reaction of bis(salicylaldehydato)copper with HZNCHR4C(OH)(C6H4OMe-x)2.

ACCESSION NUMBER: 1975:3854 CAPLUS
DOCUMENT NUMBER: 82:3854
TITLE: Chrysanthemumic acid and copper catalysts for its preparation
INVENTOR(S): Aratani, Tadatoshi; Nakamura, Shuzo; Nagase, Tsuneyuki; Yoneyoshi, Yukio
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd.
SOURCE: Ger. Offen., 36 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2407094	A1	19740905	DE 1974-2407094	19740214
DE 2407094	C2	19850110		
JP 49102649	A2	19740927	JP 1973-18642	19730214
JP 50018439	A2	19750226	JP 1973-69998	19730620
JP 50024254	A2	19750315	JP 1973-69997	19730620
JP 53043955	B4	19781124		
IL 44167	A1	19790930	IL 1974-44167	19740207
NL 7401785	A	19740816	NL 1974-1785	19740208
CH 594593	A	19780113	CH 1974-1896	19740212
BE 810959	A1	19740529	BE 1974-140845	19740213
FR 2217312	A1	19740906	FR 1974-4901	19740213
FR 2217312	B1	19800523		
IT 1004954	A	19760720	IT 1974-67422	19740213
DK 136642	B	19771107	DK 1974-756	19740213
SU 689615	D	19790930	SU 1974-1999312	19740213
GB 1455189	A	19761110	GB 1974-6828	19740214
CA 1016553	A1	19770830	CA 1974-192555	19740214
US 4029690	A	19770614	US 1975-549034	19750211
DK 7505401	A	19751128	DK 1975-5401	19751128
DK 152728	B	19880502		
DK 152728	C	19880926		
US 4029683	A	19770614	US 1975-645541	19751229

PRIORITY APPLN. INFO.:

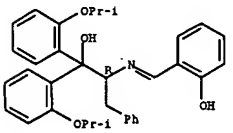
JP 1973-18642	A	19730214
JP 1973-69997	A	19730620
JP 1973-69998	A	19730620
DK 1974-756	A	19740213
US 1974-442413	A2	19740214
US 1975-549034	A3	19750211

IT 54464-80-1P 54464-81-2P 54464-82-3P
54464-83-4P 54464-84-5P 54464-85-6P
54464-86-7P 54464-87-8P 54464-88-9P
54464-89-0P 54464-90-3P 54464-91-4P

L4 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
54464-92-5P 54464-93-6P 54464-94-7P
54464-95-8P 54464-96-9P 54464-97-0P 54464
-98-1P 54464-99-2P 54465-00-8P
54465-01-9P 54465-02-0P 54465-03-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction with copper acetate)

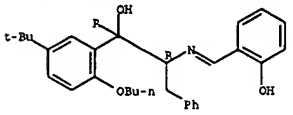
RN 54464-80-1 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-bis[2-(1-methylethoxy)phenyl]-, (R)- (9CI) (CA INDEX NAME)

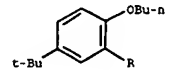
Absolute stereochemistry.
Double bond geometry unknown.



RN 54464-81-2 CAPLUS
CN Benzenepropanol, α,α-bis[2-butoxy-5-(1,1-dimethylethyl)phenyl]-β-[[(2-hydroxyphenyl)methylene]amino]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

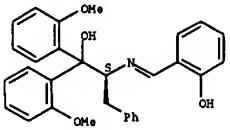




RN 54464-82-3 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-bis(2-methoxyphenyl)-, (S)- (9CI) (CA INDEX NAME)

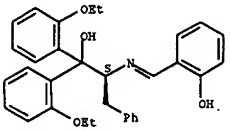
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



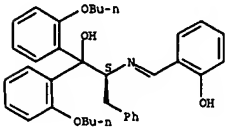
RN 54464-83-4 CAPLUS
CN Benzenepropanol, α,α-bis(2-ethoxyphenyl)-β-[[(2-hydroxyphenyl)methylene]amino]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 54464-84-5 CAPLUS
CN Benzenepropanol, α,α-bis(2-butoxyphenyl)-β-[[(2-hydroxyphenyl)methylene]amino]-, (S)- (9CI) (CA INDEX NAME)

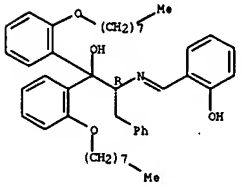
Absolute stereochemistry.
Double bond geometry unknown.



RN 54464-85-6 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-bis[2-(octyloxy)phenyl]-, (R)- (9CI) (CA INDEX NAME)

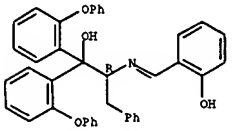
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



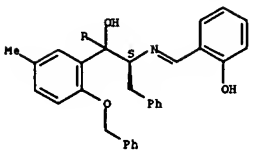
RN 54464-86-7 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-bis(2-phenoxyphenyl)-, (R)- (9CI) (CA INDEX NAME)

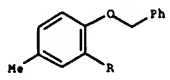
Absolute stereochemistry.
Double bond geometry unknown.



RN 54464-87-8 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-α,α-bis[5-methyl-2-(phenylmethoxy)phenyl]-, (S)- (9CI) (CA INDEX NAME)

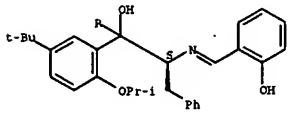
Absolute stereochemistry.
Double bond geometry unknown.

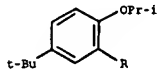




RN 54464-88-9 CAPLUS
CN Benzenepropanol, α,α-bis[5-(1,1-dimethylethyl)-2-(1-methylethoxy)phenyl]-β-[[(2-hydroxyphenyl)methylene]amino]-, (S)- (9CI) (CA INDEX NAME)

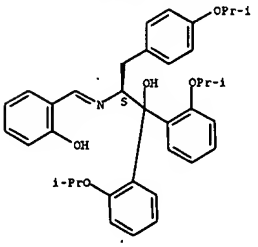
Absolute stereochemistry.
Double bond geometry unknown.





RN 54464-89-0 CAPLUS
CN Benzenepropanol, α,α-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-β-[[(2-hydroxyphenyl)methylene]amino]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



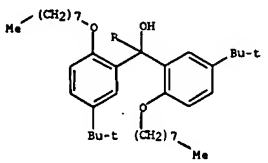
RN 54464-92-5 CAPLUS
CN Benzenepropanol, β-[[(2-hydroxyphenyl)methylene]amino]-4-(1-methylethoxy)-α,α-bis[2-(1-methylethoxy)phenyl]-, (S)- (9CI) (CA INDEX NAME)

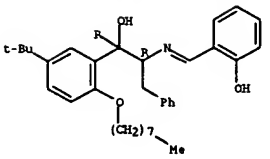
Absolute stereochemistry.
Double bond geometry unknown.

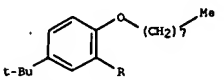
RN 54464-93-6 CAPLUS
CN Benzenepropanol, α,α-bis[5-(1,1-dimethylethyl)-2-(octyloxy)phenyl]-β-[[(2-hydroxyphenyl)methylene]amino]-4-(1-methylethoxy)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A

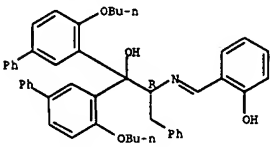






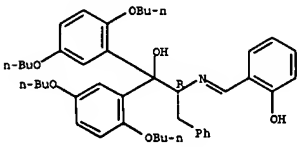
RN 54464-90-3 CAPLUS
CN [1,1'-Biphenyl]-3-methanol, 4-butoxy-α-(4-butoxy[1,1'-biphenyl]-3-yl)-α-[1-[[(2-hydroxyphenyl)methylene]amino]-2-phenylethyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

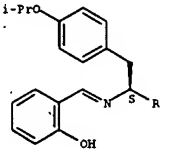


RN 54464-91-4 CAPLUS
CN Benzenepropanol, α,α-bis(2,5-dibutoxyphenyl)-β-[[(2-hydroxyphenyl)methylene]amino]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

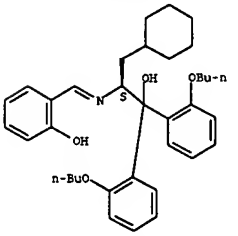


PAGE 2-A



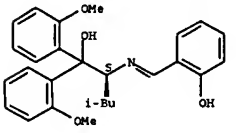
RN 54464-94-7 CAPLUS
CN Benzenemethanol, 2-butoxy-α-(2-butoxyphenyl)-β-[2-cyclohexyl-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



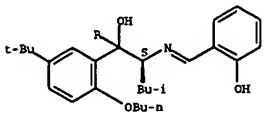
RN 54464-95-8 CAPLUS
CN Benzenemethanol, α-[1-[[(2-hydroxyphenyl)methylene]amino]-3-methylbutyl]-2-methoxy-α-(2-methoxyphenyl)-, (S)- (9CI) (CA INDEX NAME)

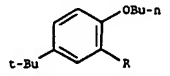
Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RN 54464-96-9 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[1-[[(2-hydroxyphenyl)methylene]amino]-3-methylbutyl]-, (S)- (9CI) (CA INDEX NAME)

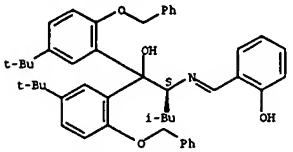
Absolute stereochemistry.
Double bond geometry unknown.





RN 54464-97-0 CAPLUS
CN Benzenemethanol, 5-(1,1-dimethylethyl)-α-[5-(1,1-dimethylethyl)-2-(phenylmethoxy)phenyl]-α-[1-[[(2-hydroxyphenyl)methylene]amino]-3-methylbutyl]-2-(phenylmethoxy)-, (S)- (9CI) (CA INDEX NAME)

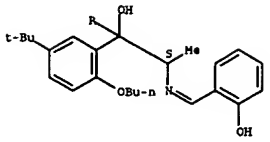
Absolute stereochemistry.
Double bond geometry unknown.

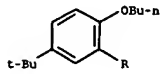


RN 54464-98-1 CAPLUS
CN Benzenemethanol, 2-butoxy-α-[2-butoxy-5-(1,1-dimethylethyl)phenyl]-5-(1,1-dimethylethyl)-α-[(1S)-1-[[(2-hydroxyphenyl)methylene]amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

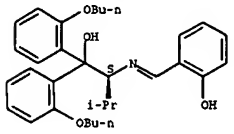
L4 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)





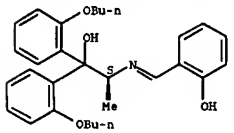
RN 54464-99-2 CAPLUS
CN Benzenemethanol, 2-butoxy-α-(2-butoxyphenyl)-α-[1-[[(2-hydroxyphenyl)methylene]amino]-2-methylpropyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 54465-00-8 CAPLUS
CN Benzenemethanol, 2-butoxy-α-(2-butoxyphenyl)-α-[1-[[(2-hydroxyphenyl)methylene]amino]ethyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 54465-01-9 CAPLUS
CN Benzenepropanol, β-[[(3,5-dibromo-2-hydroxyphenyl)methylene]amino]-

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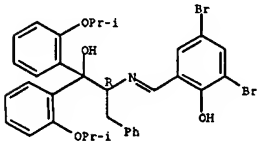
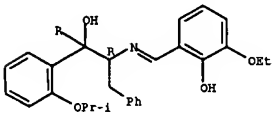
α,α-bis[2-(1-methylethoxy)phenyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 54465-02-0 CAPLUS
CN Benzenepropanol, β-[[(3-ethoxy-2-hydroxyphenyl)methylene]amino]-α,α-bis[2-(1-methylethoxy)phenyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 54465-03-1 CAPLUS
CN 2-Naphthalenol, 1-[[[2-hydroxy-2,2-bis[2-(1-methylethoxy)phenyl]-1-(phenylmethyl)ethyl]imino]methyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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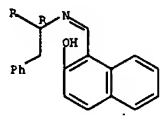

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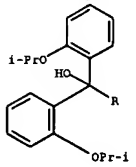

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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